

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
• 888.74 4	0.0167 14	¹⁷¹ Lu(8.24 d)	739.78(47.8), 19.394(13.7), 667.404(11.04)
888.8 3	1.40 21	¹⁵⁴ Tb(22.7 h)	247.925(79), 346.643(69), 1419.81(46)
888.80 5	2.29 9	²⁴⁰ Np(61.9 m)	566.34(25.3), 973.9(23.8), 600.57(18.4)
• 888.80 5	25.1 4	²⁴⁰ Am(50.8 h)	987.76(73.2), 98.860(1.5), 42.824(0.09)
888.86 11	1.91 10	⁹⁵ Ru(1.643 h)	336.43(70.2), 1096.76(21.0), 626.77(17.8)
888.91 7	0.054 3	¹²¹ I(2.12 h)	212.189(84), 532.08(6.07), 598.74(1.47)
888.97 5	3.3 3	¹⁰⁸ Sn(10.30 m)	396.44(64.3), 272.75(45.5), 669.08(22.6)
889.00 6	0.102 5	¹¹⁹ I(19.1 m)	257.52(87), 635.86(2.69), 320.53(2.17)
889.0 4	0.35 4	¹²⁷ Sn(2.10 h)	1114.3(39), 1095.6(20), 823.1(10.9)
889.0 15	0.0016 8	²¹⁹ Rn(3.96 s)	271.23(10.8), 401.81(6.37), 130.59(0.119)
889.05 80	0.05 3	¹⁴⁰ Cs(63.7 s)	602.345(71.1), 908.25(11.6), 1200.25(6.39)
889.07 15	0.44 8	¹⁹⁰ Re(3.2 h)	186.718(27.8), 605.24(14.9), 557.972(14.3)
889.099 12	2.11 16	⁷⁸ As(90.7 m)	613.725(54), 694.916(16.7), 1308.59(13.0)
889.1 2	0.39 5	¹⁴⁰ Xe(13.60 s)	805.52(20), 1413.66(12.2), 1315.05(8.2)
889.1 3	0.05 1	¹⁵¹ Nd(12.44 m)	116.80(43.4), 255.68(16.4), 1180.89(14.8)
889.13 8	0.253 9	¹⁰⁵ Cd(55.5 m)	961.84(4.69), 346.870(4.20), 1302.459(3.98)
889.2 5	0.14 3	¹⁵⁰ Pm(2.68 h)	333.971(68), 1324.51(17.5), 1165.739(15.8)
889.2 3	0.051 10	¹⁵³ Dy(6.4 h)	80.723(11.10), 213.754(10.90), 99.659(10.51)
889.2 5	†6.0 7	²⁰¹ Po(15.3 m)	890.1(†100), 240.1(†71.0), 904.2(†54.8)
889.23 19	0.0140 5	⁷⁷ Ge(11.30 h)	264.44(54), 211.03(30.8), 215.50(28.6)
889.23 19	3.1 6	⁸⁰ Zn(0.545 s)	712.53(45.1), 715.40(33.8), 964.93(15.6)
• 889.277 3	99.984 1	⁴⁶ Sc(83.79 d)	1120.545(99.987), 2010(0.000013)
889.3 5	3.2 3	⁷⁰ As(52.6 m)	1039.20(81), 1114.1(21.8), 668.3(21.8)
889.3 5	0.142 24	²²⁷ Fr(2.47 m)	90.035(39), 585.804(29.5), 64.267(14.5)
889.38 19	0.118 22	¹⁸¹ Re(19.9 h)	365.57(56), 360.70(20), 639.30(6.4)
• 889.44 15	0.58 17	¹⁴⁶ Eu(4.59 d)	747.2(98), 633.03(43), 634.07(37)
889.5 5	0.18 5	¹⁷⁷ W(135 m)	115.65(50), 426.98(13.2), 1036.4(10.3)
889.522 22	0.0036 8	¹⁷³ Hf(23.6 h)	123.672(83), 296.974(33.9), 139.634(12.7)
889.56 4	0.023	²³⁹ U(23.45 m)	74.664(48), 43.533(4.14), 662.24(0.18)
889.6 5	0.43 3	⁹⁹ Nb(2.6 m)	97.785(7), 253.50(3.64), 2641.3(3.64)
889.6 2	1.0	¹⁴⁵ La(24.8 s)	70.0(11), 355.8(3.8), 118.2(3.6)
889.6 4	0.12 4	¹⁵⁸ Tm(3.98 m)	192.13(62), 335.10(16.8), 1149.83(7.6)
889.6 5	0.33 8	¹⁶¹ Tm(33 m)	45.54(5.00), 1648.1(9.50), 84.40(9.4)
889.7		¹⁵⁷ Er(18.65 m)	53.05(24), 391.32(14.2), 121.57(10.1)
889.73 16	0.26 9	¹³³ Sb(2.5 m)	1096.22(43.0), 817.8(18.5), 2755(12.5)
• 889.753 21	5.36 14	¹⁶⁹ Lu(34.06 h)	960.622(23.4), 191.2137(20.6), 1449.74(9.92)
889.8 1	1.06 7	¹⁴² Eu(2.34 s)	768.1(10), 1658.1(1.75), 1754.1(1.49)
889.9 7	0.06 3	⁸⁷ Br(55.60 s)	1419.71(22.0), 1476.04(7.9), 1577.60(6.0)
889.9 3	0.28 6	¹³³ Te(55.4 m)	912.671(55.28), 647.51(19.4), 863.955(15.6)
889.9 2	0.0198 17	¹⁵¹ Tb(17.609 h)	287.357(28.3), 251.863(26.3), 108.088(24.3)
889.9 5	†1.9 4	¹⁸³ Hg(9.4 s)	60.5(†100), 159.91(†21), 172.70(†17)
889.9 5	>2.9	¹⁹⁵ Pb(15.0 m)	383.64(106.9), 394.21(44), 878.40(24.2)
889.91 21	0.070 14	¹⁸⁷ Au(8.4 m)	1331.81(7.0), 1408.23(3.06), 914.73(3.02)
889.96 2	1.530 23	²⁵⁰ Bk(3.217 h)	989.12(45), 1031.85(35.6), 1028.65(4.91)
889.96 2	0.44 7	²⁵⁰ Es(2.22 h)	989.12(13.3), 1031.85(10.6), 828.82(5.5)
889.97 4	0.0506 17	¹⁹⁴ Ir(19.15 h)	328.455(13.1), 293.545(2.55), 645.157(1.17)
• 889.97 4	0.132 18	¹⁹⁴ Au(38.02 h)	328.455(60), 293.545(10.2), 1468.91(6.3)
889.980 16	0.950 11	¹⁸³ Os(13.0 h)	381.768(89.6), 114.463(20.63), 167.844(8.81)
• 890.0 2	0.0025 8	⁷¹ As(65.28 h)	174.954(82.00), 1095.490(4.08), 499.876(3.624)
890.0 2	0.38 3	⁹⁶ Rh(9.90 m)	832.57(100), 685.49(95.7), 631.71(74.5)
890.0 10	0.0042 17	¹¹¹ Pd(23.4 m)	580.00(0.8), 70.44(0.78), 1459.0(0.56)
890.0 6	0.058 13	¹¹¹ Sn(35.3 m)	1152.98(2.7), 1914.70(1.99), 761.97(1.48)
890.0 3	6.8 8	¹¹⁴ Rh(1.85 s)	332.9(87), 519.8(48.4), 618.7(31)

• $t_{1/2} > 1$ d

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$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
890.0 1	0.139 13	¹⁴³ Cs(1.78 s)	195.554(13), 232.421(8.32), 306.424(6.80)
890.0	0.24	¹⁴⁸ Dy(3.1 m)	620.24(96), 1247.2(1.4), 178.3(0.5)
890.0 4	†22 6	¹⁹⁵ Bi(183 s)	807.6(†100), 831.7(†100), 776.2(†95)
890.0 10	0.15 3	²⁰⁵ At(26.2 m)	719.30(31), 669.41(8.6), 628.88(5.6)
890.01 15	†9.9 8	⁸³ Ge(1.85 s)	306.51(†100.0), 1193.77(†20.5), 1525.50(†13.6)
890.1 3	0.33 8	¹⁰⁹ Ru(34.5 s)	206.29(22.0), 225.98(19.6), 1929.05(13.7)
890.10 20	0.26 6	¹²¹ Ag(0.78 s)	314.55(32.1), 353.43(19.9), 500.61(9.3)
• 890.1 2	0.040 10	¹⁴⁴ Pm(363 d)	696.510(99), 618.01(98.6), 476.8(42.0)
890.1 2	†100 4	²⁰¹ Po(15.3 m)	240.1(†71.0), 904.2(†54.8), 1186.7(†20.8)
890.1 5	0.14	²³³ Th(22.3 m)	86.477(2.7), 29.374(2.5), 459.222(1.4)
890.1 4	0.027 7	²³⁴ Pa(6.70 h)	131.30(18), 946.00(13.4), 883.24(9.6)
• 890.13 3	0.678 9	²⁰⁵ Bi(15.31 d)	1764.36(1.368), 703.44(31), 987.62(0.585)
890.2 2	22	¹⁷⁰ Ho(2.76 m)	258.2(37.0), 931.3(36.1), 181.6(23.8)
890.2 2	†0.9 3	¹⁷² Ir(2.0 s)	227.8(†100.0), 378.4(†62.0), 448.4(†40.5)
890.2 5	0.09 3	¹⁹² Au(4.94 h)	316.50791(58.0), 295.95827(22.3), 2236.89(5.6)
890.3 2	1.1 4	⁹⁸ Y(0.548 s)	1223.0(36.0), 2941.3(16.7), 1590.9(14.7)
890.3 2	2.57 20	¹⁰⁰ Ag(2.01 m)	665.54(99), 750.67(78), 773.20(24.2)
890.3 3	2.11 22	¹⁰⁹ Ru(34.5 s)	206.29(22.0), 225.98(19.6), 1929.05(13.7)
890.4 10	0.3 1	⁸⁹ Kr(3.15 m)	220.948(20.1), 586.03(16.6), 904.27(7.2)
890.4 4	1.26 10	¹⁴⁴ La(40.8 s)	397.440(94.3), 541.20(39.2), 844.8(22.3)
890.5 2	10.9 18	¹¹⁰ Rh(28.5 s)	373.80(91), 546.90(42.4), 687.70(25.8)
• 890.5 5	0.0087 19	¹²⁵ Sn(9.64 d)	1067.10(10), 1089.15(4.59), 822.48(4.28)
890.5 3	†0.68 14	¹⁵⁸ Ho(11.3 m)	218.21(†100.0), 98.91(†70), 945.7(†37)
890.52 9	1.77 17	¹⁴³ Gd(112 s)	271.94(84), 588.00(15.7), 798.89(10.7)
890.54 8	0.085 6	¹³⁹ Cs(9.27 m)	1283.23(8.3), 627.24(1.78), 1420.66(0.91)
890.6 4	0.052 12	¹⁴³ Ba(14.33 s)	211.475(25), 798.79(15.6), 980.45(11.55)
890.6 1	0.71 23	²⁰⁶ Fr(15.9 s)	575.3(12), 559.0(8.19), 628.6(3.6)
890.6 2	0.0170 20	²⁴⁰ Np(7.22 m)	554.60(20.9), 597.40(11.7), 1496.9(1.33)
890.64 5	1.80 4	⁹⁰ Nb(14.60 h)	1129.224(92.7), 2318.968(82.03), 141.178(66.8)
890.65 25	0.27 7	¹⁵⁸ Tm(3.98 m)	192.13(62), 335.10(16.8), 1149.83(7.6)
890.70 30	0.95 8	¹⁰⁵ In(5.07 m)	131.37(41), 260.21(15.7), 604.11(9.2)
890.7 3	0.8 3	¹⁵² Ho(49.5 s)	647.2(92), 613.8(88.4), 683.3(88)
890.7 1	†0.7 1	¹⁶⁰ Lu(36.1 s)	243.2(†100), 395.4(†21.0), 577.2(†10.7)
890.7 5	0.078 14	¹⁶² Tm(21.70 m)	102.00(17.5), 798.68(8.4), 227.52(7)
• 890.8 3	0.138 15	⁸³ Sr(32.41 h)	762.65(30), 381.53(14.1), 418.37(4.41)
890.8 4	0.27 5	¹⁰⁹ In(4.2 h)	203.5(74), 623.7(5.5), 1148.9(4.3)
• 890.8 6	0.016 12	¹⁵³ Tb(2.34 d)	212.038(31.0), 170.504(6.8), 109.758(6.4)
890.82 22	†13.1 10	¹⁸² Ir(15 m)	273.23(†100), 126.79(†77), 236.3(†21.0)
890.87 18	2.66 4	¹⁵⁶ Ho(56 m)	266.35(54.7), 137.83(51), 366.25(10.73)
890.95 58	0.057 9	¹⁷⁴ Ta(1.05 h)	206.50(58), 91.00(16.0), 1205.92(4.9)
891.0	4	⁴³ Ar(5.37 m)	975.0(34), 738.1(15), 1439.5(13)
891.0 5	0.12 3	⁷⁶ Kr(14.8 h)	315.7(39), 270.2(21.1), 45.48(19.5)
891	>0.06	⁹⁰ Nb(14.60 h)	1129.224(92.7), 2318.968(82.03), 141.178(66.8)
891 1	0.18 9	⁹⁵ Ru(1.643 h)	336.43(70.2), 1096.76(21.0), 626.77(17.8)
891.0 5	0.16 7	¹⁶¹ Tm(33 m)	45.54(5.00), 1648.1(9.50), 84.40(9.4)
891.0	†1.5 2	¹⁷⁸ Ir(12 s)	266.1(†100.0), 131.6(†79), 363.1(†39.9)
891.0 3	9.5 6	¹⁸⁰ Ir(1.5 m)	276.4(56), 132.2(38.1), 699.0(13.4)
• 891 1	†0.0012 4	²²⁷ Th(18.72 d)	235.971(†813), 50.13(†528), 256.25(†463)
891.08	0.09 4	⁴⁴ K(22.13 m)	1157.031(58), 2150.76(22.7), 2518.95(9.69)
891.1 3	†2.4 5	¹⁸⁵ Pt(33.0 m)	229.60(†100), 135.3(†80), 197.4(†74)
891.13 3	0.588 21	¹⁵⁵ Dy(9.9 h)	226.918(68.4), 184.564(3.37), 1089.8(>2.8)
891.21 14	0.10 3	¹⁵³ Dy(6.4 h)	80.723(11.10), 213.754(10.90), 99.659(10.51)
891.28 4	5.62	¹⁵⁴ Pm(1.73 m)	2057.76(17.1), 1393.9(14.4), 81.99(12.6)

• $t_{1/2} > 1$ d

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891.3 4	0.6 4	⁴⁵ K(17.3 m)	174.276(74.4), 1705.6(53), 2353.6(14.12)
891.3 16	0.34 19	⁷⁸ Ga(5.09 s)	619.40(77), 1186.42(20.1), 567.06(18.2)
891.3 2	0.025 3	¹⁹⁹ Pt(30.80 m)	542.993(15), 493.772(5.59), 317.056(4.95)
891.31 12	0.021 4	⁸⁸ Rb(17.78 m)	1836.063(21.40), 898.042(14.04), 2677.892(1.96)
891.31 27	†1.0 2	¹⁶⁵ Lu(10.74 m)	132.49(†100), 120.60(†100), 174.25(†47.0)
• 891.37 8	0.0028 4	¹⁹³ Os(30.5 h)	139.03(4.27), 460.50(3.95), 73.039(3.2)
891.4 2	†48	¹⁰¹ In(16 s)	252(†100), 750.3(†61), 420.7(†54)
891.4 3	4.1 4	¹⁰² Ag(12.9 m)	556.52(91), 719.40(58), 1744.99(17.3)
891.4 1	1.05 17	¹³³ Te(55.4 m)	912.671(55.28), 647.51(19.4), 863.955(15.6)
891.40 13	†11.2 9	¹⁴² Xe(1.22 s)	571.83(†100), 657.05(†79), 538.24(†77)
891.462 15	0.25 3	⁷⁵ Br(96.7 m)	286.572(88), 141.3147(6.6), 427.883(4.4)
• 891.47 7	0.0081 9	¹⁴³ Ce(33.039 h)	293.266(42.80), 57.356(11.7), 664.571(5.69)
891.5 6	0.031 10	⁹³ Kr(1.286 s)	253.42(41.2), 323.89(24.1), 266.83(20.6)
891.5 3	†0.8	¹¹¹ Rh(11 s)	275.4(†100.0), 411.8(†9.42), 230.0(†8.9)
891.5 3	1.05 13	¹¹⁸ Cs(14 s)	337.4(100), 472.8(37.4), 586.6(15.4)
891.5 3	0.0022 5	¹⁷⁹ Lu(4.59 h)	214.335(11.3), 214.930(0.46), 123.3790(0.45)
891.5 10	†100 11	²⁴⁴ Bk(4.35 h)	217.6(†88), 921.5(†19), 490.5(†15.8)
891.6 3	0.23 7	¹²¹ Cs(155 s)	153.9(15.2), 239.6(7.7), 427.1(3.63)
891.6 3	0.18 5	¹²¹ Cs(122 s)	179.4(30.2), 196.0(24.1), 459.7(12.0)
891.60 5	0.73 4	¹⁸⁰ Lu(5.7 m)	407.94(43.0), 1199.7(24.3), 1106.00(22.7)
891.66 10	†2.64 14	¹⁵⁸ Ho(11.3 m)	218.21(†100.0), 98.91(†70), 945.7(†37)
891.68 10	25 5	⁹⁴ Ru(51.8 m)	366.94(75), 524.70(1.80), 75.5(>0.08)
891.7 4	0.10 4	¹⁸¹ Re(19.9 h)	365.57(56), 360.70(20), 639.30(6.4)
891.76 18	0.174 11	¹³⁹ Xe(39.68 s)	218.59(56), 296.53(21.7), 174.97(11.3)
891.8 3	0.66 18	¹⁸⁷ Pt(2.35 h)	106.46(9), 201.52(6.4), 110.04(5.7)
891.9		¹⁰⁸ Rh(16.8 s)	433.937(43), 618.84(15.0), 497.22(5.2)
891.9 2	†5.1 15	¹⁵⁵ Nd(8.9 s)	180.574(†100), 418.99(†75), 955.08(†50)
891.92 20	0.70 6	¹⁵¹ Dy(17.9 m)	386.10(19.4), 49.46(18.0), 546.31(14.3)
• 891.9800 6	0.057 4	¹⁸² Ta(114.43 d)	67.75001(41.2), 1121.3007(34.9), 1221.4066(26.98)
891.9800 6	0.052 4	¹⁸² Re(12.7 h)	67.75001(38.2), 1121.3007(32), 1221.4066(24.8)
• 891.9800 6	0.033 5	¹⁸² Re(64.0 h)	229.3220(26), 67.75001(22.2), 1121.3007(22.0)
892.0 4	0.37 9	¹⁵⁷ Tm(3.63 m)	455.00(9.3), 385.5(8.8), 348.40(8.4)
892.0 2	0.29 4	¹⁸³ Ir(58 m)	392.52(10.4), 228.70(6.9), 87.67(5.6)
892.06 20	0.06 3	⁶⁶ Ge(2.26 h)	43.89(28.7), 381.85(28), 272.97(10.4)
892.1 3	0.30 4	¹⁸⁴ Au(53.0 s)	162.97(50), 272.98(40), 362.47(17.5)
892.11 4	0.028 7	¹⁸³ Os(13.0 h)	381.768(89.6), 114.463(20.63), 167.844(8.81)
892.15 20	0.22 6	¹²¹ Ag(0.78 s)	314.55(32.1), 353.43(19.9), 500.61(9.3)
892.2 3	4.4 5	⁹⁷ Sr(426 ms)	1905.0(25), 953.8(21.4), 652.2(11.4)
892.2 2	0.54 6	¹⁵⁵ Ho(48 m)	240.19(12.5), 136.30(5.00), 45.38(5)
892.21 8	0.18 4	¹⁰⁵ Cd(55.5 m)	961.84(4.69), 346.870(4.20), 1302.459(3.98)
892.21	>0.028	¹⁰⁵ Cd(55.5 m)	961.84(4.69), 346.870(4.20), 1302.459(3.98)
892.288 23	0.091 3	¹⁵⁹ Ho(33.05 m)	121.012(36.2), 131.973(23.6), 309.594(17.2)
892.3 2	0.011 3	¹¹⁹ I(19.1 m)	257.52(87), 635.86(2.69), 320.53(2.17)
892.3 2	0.0035 15	¹³³ La(3.912 h)	278.835(2.50), 302.353(1.648), 290.06(1.413)
892.31 11	0.75 10	¹⁸⁶ Ta(10.5 m)	197.93(50), 214.87(42.3), 510.82(37.5)
892.33 17	0.371 19	²⁰⁷ Po(5.80 h)	992.33(59.3), 742.64(28.2), 911.79(16.95)
892.4 2	0.0110 17	¹²¹ I(2.12 h)	212.189(84), 532.08(6.07), 598.74(1.47)
892.47 10	1.14 8	¹⁹⁷ Tl(2.84 h)	425.84(12.9), 152.22(7.2), 1411.34(4.5)
892.5 7	0.018 9	⁷⁹ Rb(22.9 m)	688.1(23), 182.77(19.2), 143.41(13.9)
892.5 7	0.020 8	⁹⁰ Rb(158 s)	831.69(28), 1060.70(6.69), 4365.90(5.6)
892.5 3	0.88 10	¹²⁷ In(1.09 s)	1597.7(49), 646.1(6.2), 805.1(5.6)
892.50 20	0.039 6	¹⁸⁹ Pt(10.87 h)	721.41(9.3), 94.33(7.6), 568.84(7.1)
892.6 3	0.46 9	¹⁰⁴ Ag(69.2 m)	555.796(92.6), 767.72(65.7), 941.7(25.0)

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892.6 1	$\dagger 21.2$ 8	^{129}Ba (2.17 h)	182.30($\dagger 100$), 1459.1($\dagger 50.0$), 202.38($\dagger 33.7$)
892.6 4	0.017 5	^{173}Ta (3.14 h)	172.2(18), 69.70(5.9), 90.3(5.0)
892.68 2	0.080 15	^{92}Sr (2.71 h)	1383.93(90), 953.31(3.52), 430.49(3.28)
892.7 3	$\dagger 8.0$	^{149}Ce (5.3 s)	57.7($\dagger 100$), 380.0($\dagger 33.7$), 86.4($\dagger 20.2$)
892.7 2	0.073 13	^{151}Nd (12.44 m)	116.80(43.4), 255.68(16.4), 1180.89(14.8)
892.7 7	1.01 18	^{207}Rn (9.25 m)	344.53(46), 747.15(14.2), 402.68(11.9)
892.7 1	0.69 3	^{230}Ac (122 s)	454.95(8), 508.20(5.15), 1243.9(3.50)
• 892.780 7	0.518 4	^{154}Eu (8.593 y)	123.071(40.79), 1274.436(35.19), 723.304(20.22)
892.780 7	3.15 22	^{154}Tb (9.4 h)	123.071(30), 247.925(22.1), 540.18(20)
892.780 7	4.6 4	^{154}Tb (22.7 h)	247.925(79), 346.643(69), 1419.81(46)
• 892.79 7	0.028 4	^{165}Tm (30.06 h)	242.917(35.5), 47.155(16.9), 297.369(12.71)
892.8 5	0.50 5	^{88}Nb (7.8 m)	1057.01(89.3), 1082.53(53.9), 399.41(45.7)
892.8 2	$\dagger 15$ 3	^{91}Ru (7.6 s)	393.7($\dagger 100$), 1096.9($\dagger 24$), 204.0($\dagger 6$)
892.8 2	0.121 24	^{163}Tm (1.810 h)	104.320(18.6), 69.229(11.6), 241.305(10.9)
892.9 1	0.070 3	^{91}Sr (9.63 h)	1024.3(33), 749.8(23.61), 652.9(8.0)
892.9 6	0.06 3	^{165}Yb (9.9 m)	80.11(49), 68.86(9.1), 1090.28(4.4)
893 1	37.0 19	^{97}Y (1.17 s)	1103.0(92.6), 161.4(71.8), 1091(56)
893.0 4	0.045 9	^{120}Xe (40 m)	25.1(30), 72.6(9), 178.1(6.8)
893.0 2	0.198 18	^{167}Lu (51.5 m)	29.66(14.4), 239.22(8.6), 213.19(3.6)
893.0 2	$\dagger 3.8$ 8	^{171}Hf (12.1 h)	122.0($\dagger 100$), 662.2($\dagger 83$), 347.18($\dagger 47$)
893.0 5	$\dagger 0.208$ 21	^{196}Ir (1.40 h)	393.346($\dagger 105.2$), 521.175($\dagger 104$), 447.1($\dagger 102.1$)
893 1	0.0027 6	^{223}Fr (21.8 m)	50.13(36.0), 79.72(9.1), 234.81(3.0)
• 893 1	$\dagger 0.00081$	^{227}Th (18.72 d)	235.971($\dagger 813$), 50.13($\dagger 528$), 256.25($\dagger 463$)
893.05 19	$\dagger 7.1$ 8	^{159}Yb (1.58 m)	166.16($\dagger 500$), 177.12($\dagger 159$), 390.20($\dagger 113$)
893.06 10	0.89 6	^{195}Tl (1.16 h)	563.52(10.5), 884.47(10.0), 1363.88(8.4)
893.1 5	2.02 17	^{70}As (52.6 m)	1039.20(81), 1114.1(21.8), 668.3(21.8)
893.1 1	10.2 11	^{104}Tc (18.3 m)	358.0(89), 530.5(15.6), 535.1(14.7)
893.2 2	1.13 11	^{101}Ag (11.1 m)	261.0(53), 588.0(10.0), 667.3(9.8)
893.2 10	0.25 4	^{196}Tl (1.84 h)	426.0(84), 610.5(11.9), 635.5(9.8)
893.28 10	2.13 25	^{197}Pb (43 m)	385.85(74), 387.72(25.1), 222.45(24.6)
893.3	0.0044 10	^{149}Nd (1.728 h)	211.309(25.9), 114.314(19.2), 270.166(10.7)
893.3 2	$\dagger 15.8$ 12	^{152}Tb (17.5 h)	344.281($\dagger 1500$), 586.294($\dagger 223$), 271.135($\dagger 203$)
893.3 2	0.026 7	^{176}Ta (8.09 h)	1159.28(25), 88.34(12), 1224.93(6)
893.34 23	0.35 4	^{207}At (1.80 h)	814.41(44.5), 588.33(19.2), 300.654(12.8)
• 893.40 5	0.291 19	^{125}Sn (9.64 d)	1067.10(10), 1089.15(4.59), 822.48(4.28)
893.4 5	0.05 3	^{140}Cs (63.7 s)	602.345(71.1), 908.25(11.6), 1200.25(6.39)
893.408 5	0.378 19	^{212}Bi (60.55 m)	727.330(6.58), 1620.50(1.49), 785.37(1.102)
893.41 31	1.37 6	^{146}Cs (0.343 s)	181.02(57.0), 557.76(9.18), 332.38(6.44)
893.42 9	0.40 3	^{87}Br (55.60 s)	1419.71(22.0), 1476.04(7.9), 1577.60(6.0)
893.42 7	0.34	^{137}I (24.5 s)	1218.00(12.8), 601.05(4.80), 1302.64(4.42)
893.49 8	18.7 11	^{203}Po (36.7 m)	908.64(55), 1090.95(19.2), 214.78(14.3)
• 893.5 1	8.1 4	^{147}Gd (38.06 h)	229.32(63), 396.00(34.3), 929.01(20.2)
893.5 7	0.15 5	^{175}Ta (10.5 h)	207.4(14.0), 348.5(12.0), 266.9(10.8)
893.6 4	0.17 4	^{91}Kr (8.57 s)	108.788(43.5), 506.592(19.1), 612.87(7.7)
893.6 3	0.16 7	^{95}Ru (1.643 h)	336.43(70.2), 1096.76(21.0), 626.77(17.8)
893.6 5	0.081 18	^{141}Eu (40.0 s)	394.0(9), 384.5(5.6), 382.9(2.97)
893.7 4	0.126 13	^{121}Xe (40.1 m)	252.7(13), 132.8(10.9), 445.2(7.7)
• 893.73 3	66 3	^{145}Eu (5.93 d)	653.512(15.0), 1658.53(14.9), 1997.00(7.2)
893.8 5	0.18 4	^{63}Fe (6.1 s)	994.8(14.0), 1427.2(4.6), 1299.0(1.23)
893.8 3	0.30 8	^{105}Mo (35.6 s)	85.4(25.0), 76.50(19.3), 147.8(14.8)
893.8 2	$\dagger 0.43$ 9	^{158}Ho (11.3 m)	218.21($\dagger 100.0$), 98.91($\dagger 70$), 945.7($\dagger 37$)
• 893.86 7	0.0072 14	^{171}Lu (8.24 d)	739.78(47.8), 19.394(13.7), 667.404(11.04)
893.9 4	0.113 25	^{83}Y (7.08 m)	35.50(0.44), 882.1(6.30), 489.90(5.53)
893.9 2	0.159 24	^{124}Cs (30.8 s)	353.9(40), 914.8(4.0), 492.6(3.6)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
893.9 5	0.20 7	¹⁵³ Ho(2.0 m)	295.8(67), 637.0(5.36), 688.5(3.7)
894 2	0.06	¹¹¹ Pd(5.5 h)	70.44(8.3), 391.25(5.4), 632.80(3.6)
894	0.0046	¹³⁶ La(9.87 m)	818.514(2.3), 760.50(0.289), 1322.76(0.264)
894.0 5	0.0028 14	¹⁵¹ Tb(17.609 h)	287.357(28.3), 251.863(26.3), 108.088(24.3)
• 894	0.0013	¹⁷² Er(49.3 h)	610.062(44.2), 407.338(42.1), 68.107(3.29)
894.02 13	0.045 3	⁸⁷ Kr(76.3 m)	402.586(49.6), 2554.8(9.2), 845.43(7.34)
894.07 16	0.078 6	¹⁴¹ Cs(24.94 s)	48.53(7.90), 561.63(4.7), 1194.02(3.95)
894.1	0.7	⁴⁴ Ar(11.87 m)	182.6(66), 1703.4(57), 1886.0(31)
894.1 5	0.26 18	¹¹² Sb(51.4 s)	1257.05(96), 990.70(14.3), 670.0(3.7)
• 894.1 7	0.0027 9	¹⁵¹ Pm(28.40 h)	340.08(23), 167.75(8.3), 275.21(6.8)
894.1 2	†31 3	¹⁹⁵ Bi(183 s)	807.6(†100), 831.7(†100), 776.2(†95)
894.26 4	9.88 16	⁷² Ga(14.10 h)	834.01(96), 2201.69(25.9), 629.95(24.8)
• 894.26 4	0.775 12	⁷² As(26.0 h)	834.01(80), 629.95(7.92), 1463.95(1.107)
894.26 11	0.26 13	¹⁶³ Tm(1.810 h)	104.320(18.6), 69.229(11.6), 241.305(10.9)
894.26 11	0.13 13	¹⁶³ Tm(1.810 h)	104.320(18.6), 69.229(11.6), 241.305(10.9)
894.3 5	0.25 9	²²⁸ Pa(22 h)	911.205(4.19), 463.005(1.250), 964.770(4.25)
894.31 5	0.0188 6	¹²⁷ Cs(6.25 h)	411.95(62.8), 124.70(11.37), 462.31(5.07)
894.35 10	8.4 4	¹⁵⁶ Pm(26.70 s)	173.75(52.0), 1147.84(20.5), 117.42(13.8)
• 894.351 12	19.8 3	²³² Pa(1.31 d)	969.315(41.6), 150.059(10.8), 453.655(8.61)
894.351 12	0.83 10	²³² Np(14.7 m)	327.3(52), 819.187(33.3), 866.760(24.4)
894.4 16	0.058 24	¹⁰¹ Mo(14.61 m)	191.92(19), 590.91(16.4), 1012.47(12.8)
894.42 25	0.016 5	¹²⁵ Xe(16.9 h)	188.418(54), 243.378(30.1), 54.968(6.81)
894.48 4	7.7 4	¹⁷⁵ Tm(15.2 m)	514.868(65), 941.23(15), 363.942(12.7)
894.5 2	0.39 4	¹³⁰ Cs(29.21 m)	536.09(3.8), 586.05(0.47), 1614.10(0.26)
• 894.50 12	0.030 12	¹⁹⁴ Au(38.02 h)	328.455(60), 293.545(10.2), 1468.91(6.3)
• 894.51 4	0.622 9	²⁰⁵ Bi(15.31 d)	1764.36(1.368), 703.44(31), 987.62(0.585)
894.60 20	2.7 3	¹¹² Sb(51.4 s)	1257.05(96), 990.70(14.3), 670.0(3.7)
894.6 1	1.28 21	¹⁴⁶ Ba(2.22 s)	140.7(20.2), 251.2(19.6), 121.2(14.2)
894.6	0.49	¹⁴⁸ Pr(2.27 m)	301.702(61), 1357.78(5.5), 1023.18(4.8)
894.6 2		²²³ Rn(23.2 m)	591.8(†100), 635.2(†76), 416.0(†55)
894.63 5	0.040 4	¹³⁵ Ce(17.7 h)	265.56(41.8), 300.07(23.5), 606.76(18.8)
894.65 15	0.78 8	¹⁴¹ Xe(1.73 s)	909.23(24.0), 118.705(16.1), 105.937(9.8)
894.7 2	0.023 3	¹⁵¹ Tb(17.609 h)	287.357(28.3), 251.863(26.3), 108.088(24.3)
894.7 4	0.030 3	¹⁶² Tb(7.60 m)	260.070(37.2), 807.53(42.8), 888.20(38.7)
894.7 4	†0.52 14	¹⁸⁹ Hg(7.6 m)	320.99(†100), 78.21(†63), 565.42(†48)
894.757 6	10.7 3	¹⁸⁴ Ta(8.7 h)	414.03(72), 252.848(43), 920.932(32.0)
• 894.757 6	15.6 3	¹⁸⁴ Re(38.0 d)	903.279(37.9), 792.071(37.5), 111.208(17.1)
• 894.757 6	2.75 10	¹⁸⁴ Re(169 d)	252.848(10.7), 216.548(9.43), 920.932(8.14)
894.8		¹¹⁰ Te(18.6 s)	605.9, 219.1, 107.5
894.8 2	0.00092 25	¹²³ I(13.27 h)	158.97(83), 528.96(1.39), 440.02(0.428)
894.8 4	0.35 6	¹³⁹ Nd(5.50 h)	113.94(40), 737.96(35), 982.2(26.4)
894.88 4	2.10 16	¹⁸² Re(12.7 h)	67.75001(38.2), 1121.3007(32), 1221.4066(24.8)
894.9 3	0.105 16	⁷⁷ Kr(74.4 m)	129.64(81), 146.59(37.3), 312.0(3.7)
894.9 4	8.4 11	¹⁰⁴ Sn(20.8 s)	132.7(56), 912.6(42), 401.2(16.2)
894.9 4	8.34 14	¹⁴² La(91.1 m)	641.285(47), 2397.8(13.3), 2542.7(10.00)
895.0 11	0.78 22	³¹ Na(17.0 ms)	2243.9(10.4), 171.1(4.8), 2022.2(3.8)
895.0 11	2.6 6	³² Na(13.2 ms)	171.1(5.4), 221.6(2.6)
895.0 5	0.29 7	⁹¹ Kr(8.57 s)	108.788(43.5), 506.592(19.1), 612.87(7.7)
895.0 3	1.72 14	⁹⁵ Rh(5.02 m)	941.6(72), 1352.0(20.8), 677.6(5.80)
895.0 3	†1.0	¹¹¹ Rh(11 s)	275.4(†100.0), 411.8(†9.42), 230.0(†8.9)
895 1	>0.35	¹³⁷ Pm(2.4 m)	177.5(40.29), 108.6(35), 233.6(29.57)
• 895.00 25	0.0242 13	¹⁷⁰ Lu(2.00 d)	84.2551(4.256), 1280.25(3.450), 2041.88(1.434)
895.05 13	0.174 14	⁹³ Kr(1.286 s)	253.42(41.2), 323.89(24.1), 266.83(20.6)
895.10 25	0.145 17	⁸¹ Sr(22.3 m)	153.54(33.8), 147.76(30.1), 443.34(17.5)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
895.1 5	0.30 6	¹⁵⁴ Pr(2.3 s)	162.4(15), 932.1(11.7), 70.8(11.22)
• 895.12 5	15.66 16	²⁰⁶ Bi(6.243 d)	803.10(99), 881.01(66.2), 516.18(40.7)
895.18 3	4.084 25	¹⁴³ Ba(14.33 s)	211.475(25), 798.79(15.6), 980.45(11.55)
895.2 1	13.9 4	¹⁴² Ba(10.6 m)	255.300(20.5), 1204.3(14.23), 231.611(12.12)
895.2 4	54 4	¹⁷³ Er(1.4 m)	199.2(48), 192.8(47), 122.40(20.6)
895.2 3	†6.6 10	¹⁸⁵ Pt(33.0 m)	229.60(†100), 135.3(†80), 197.4(†74)
895.21 20	0.14 3	¹⁶⁵ Yb(9.9 m)	80.11(49), 68.86(9.1), 1090.28(4.4)
895.3 2	0.50	¹⁴⁵ La(24.8 s)	70.0(11), 355.8(3.8), 118.2(3.6)
895.3 1	0.061 10	²⁴⁰ Np(7.22 m)	554.60(20.9), 597.40(11.7), 1496.9(1.33)
• 895.3 1	1.7×10^{-6} 5	²⁴⁴ Cm(18.10 y)	42.824(.0044100), 98.860(.0001470), 152.63(<4.9×10 ⁻⁷)
895.31 5	0.0018	²³⁹ U(23.45 m)	74.664(48), 43.533(4.14), 662.24(0.18)
• 895.35 8	0.140 15	¹⁸⁸ Ir(41.5 h)	155.032(29.7), 2214.62(18.7), 632.99(18)
895.4 3	1.5 3	⁹⁸ Pd(17.7 m)	112.0(58), 662.2(19.7), 106.75(13.9)
895.4 3	1.8 3	¹⁸⁷ Pt(2.35 h)	106.46(9), 201.52(6.4), 110.04(5.7)
• 895.4 3	7.5×10^{-9} 25	²³⁹ Pu(24110 y)	51.624(0.007100), 38.661(0.000500), 129.297(0.00631)
• 895.5 4	0.0112 20	⁷⁹ Kr(35.04 h)	261.29(13), 397.54(9.3), 606.09(8.12)
895.5 3	0.111 7	¹⁵³ Dy(6.4 h)	80.723(11.10), 213.754(10.90), 99.659(10.51)
895.7 2	0.43 15	¹⁰⁵ Mo(35.6 s)	85.4(25.0), 76.50(19.3), 147.8(14.8)
895.7 2	0.7	¹⁶¹ Er(3.21 h)	826.6(3.0), 211.15(12.2), 592.6(3.7)
895.7 2	0.13	¹⁶¹ Er(3.21 h)	826.6(3.0), 211.15(12.2), 592.6(3.7)
895.8 2	0.34 14	¹¹⁷ Ag(5.34 s)	135.4(48), 386.8(39.9), 298.1(21.1)
895.8 10	†8×10 ⁰⁴ 3	¹²³ In(47.8 s)	125.76(†4.2×10 ⁷), 3234(†130000), 1169.8(†100000)
895.8 1	13.6 6	²⁴⁰ Np(61.9 m)	566.34(25.3), 973.9(23.8), 600.57(18.4)
• 895.82 11	0.14 5	¹⁶⁹ Lu(34.06 h)	960.622(23.4), 191.2137(20.6), 1449.74(9.92)
• 895.847 10	0.647 14	¹⁴⁸ Eu(54.5 d)	550.284(98.5), 629.987(71.9), 611.293(20.5)
895.9 3	0.22 4	¹⁵⁰ Tb(3.48 h)	638.05(72), 496.3(14.8), 792.5(4.39)
895.9 4	0.05 3	¹⁸⁵ Au(4.25 m)	310.6(13), 243.1(6.6), 77.7(6)
895.9 1	1.46 10	²⁰⁰ Po(11.5 m)	671.0(34.0), 617.7(19.7), 434.4(9.3)
• 895.99 20	0.036 5	¹⁵³ Tb(2.34 d)	212.038(31.0), 170.504(6.8), 109.758(6.4)
896.0 4	0.13 3	⁸⁷ Br(55.60 s)	1419.71(22.0), 1476.04(7.9), 1577.60(6.0)
896.0 5	1.6 8	¹⁰⁵ Tc(7.6 m)	143.26(16), 107.945(14.1), 321.50(11.1)
896.0 5	†9.7 10	¹¹³ I(6.6 s)	462.5(†100), 622.4(†74), 351.5(†43)
896.0 3	0.9 3	¹⁵² Ho(49.5 s)	647.2(92), 613.8(88.4), 683.3(88)
896.0 3	†2.8 9	¹⁷¹ Hf(12.1 h)	122.0(†100), 662.2(†83), 347.18(†47)
896.02 10	0.43 12	¹³⁴ Te(41.8 m)	767.20(29.0), 210.465(22.3), 277.951(20.9)
896.04 28	1.1 7	¹⁰⁵ In(5.07 m)	131.37(41), 260.21(15.7), 604.11(9.2)
896.09 10	5.0 13	¹⁹⁷ Pb(8 m)	385.85(50), 761.14(13.3), 375.48(12.8)
896.09 10	0.80 18	¹⁹⁷ Pb(43 m)	385.85(74), 387.72(25.1), 222.45(24.6)
896.10 20	0.61 11	¹⁰⁶ Tc(35.6 s)	270.07(56), 2239.30(13.6), 1969.40(8.9)
896.1 1	0.058 10	¹¹³ Ag(5.37 h)	298.58(10), 258.8(1.64), 316.3(1.343)
896.1 4		¹⁹⁹ Pb(12.2 m)	366.90(7), 382.8, 2751.9
896.1 5	0.0171 24	²²³ Fr(21.8 m)	50.13(36.0), 79.72(9.1), 234.81(3.0)
• 896.1 5	†0.0069 19	²²⁷ Th(18.72 d)	235.971(†813), 50.13(†528), 256.25(†463)
896.12 5	†2.7 1	¹⁵⁸ Ho(11.3 m)	218.21(†100.0), 98.91(†70), 945.7(†37)
896.12 5		¹⁶⁸ Lu(5.5 m)	1483.65(†100), 228.58(†97), 111.8(†68)
896.12 5	15	¹⁶⁸ Lu(6.7 m)	198.82(28), 979.22(20), 884.64(13.9)
896.2 3	†12.7 20	¹³⁷ Te(2.49 s)	243.3(†100), 554.0(†34), 469.1(†21)
896.20 17	†2.1 3	¹⁶⁵ Lu(10.74 m)	132.49(†100), 120.60(†100), 174.25(†47.0)
896.22 12	0.215 6	¹⁹² Au(4.94 h)	316.50791(58.0), 295.95827(22.3), 2236.89(5.6)
• 896.28 6	0.47	²⁰⁹ Po(102 y)	
896.3 5	0.13 5	⁶⁰ Cu(23.7 m)	1332.501(88), 1791.6(45.4), 826.06(21.7)
896.3 4	0.21 3	¹⁰¹ Mo(14.61 m)	191.92(19), 590.91(16.4), 1012.47(12.8)
896.3 3	0.15 7	¹³⁹ Xe(39.68 s)	218.59(56), 296.53(21.7), 174.97(11.3)
896.33 18	†0.26 3	¹⁸⁴ Ir(3.09 h)	263.97(†100), 119.80(†45), 390.38(†38)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
896.37 10	0.109 9	⁸⁹ Br(4.40 s)	1097.82(6.00), 997.93(4.26), 953.53(4.26)
896.4 2	0.14 7	¹⁶³ Tb(19.5 m)	351.138(26), 389.734(24.3), 494.534(23)
• 896.42 3	0.981 9	¹⁴⁸ Pm(5.370 d)	1465.12(22), 550.284(22.00), 914.85(11.46)
896.5 2	0.36 12	¹⁰¹ Zr(2.1 s)	119.3(10.8), 205.6(6.0), 912.2(3.48)
896.5 1	1.45 16	¹⁴¹ Sm(22.6 m)	196.88(74), 431.6(40.4), 777.6(20.3)
• 896.5 9	>0.21	¹⁴⁷ Gd(38.06 h)	229.32(63), 396.00(34.3), 929.01(20.2)
896.51 5	0.122 3	⁷⁷ Ge(11.30 h)	264.44(54), 211.03(30.8), 215.50(28.6)
• 896.531 12	0.070 5	⁵⁶ Co(77.27 d)	846.771(100), 1238.282(67.6), 2598.459(17.28)
896.6 5	0.63 8	⁹⁷ Pd(3.10 m)	265.26(56), 475.2(26.7), 792.70(13.8)
896.6 2	$\dagger 3.2 \times 10^3$	¹¹⁹ In(18.0 m)	1065.55($\dagger 80000$), 1249.71($\dagger 44000$), 1163.85($\dagger 32000$)
896.6 1	$\dagger 8.4 \times 10^3$	¹⁵⁷ Ho(12.6 m)	279.97($\dagger 47600$), 341.16($\dagger 37000$), 193.41($\dagger 15200$)
896.61 9	0.084 9	¹⁰⁵ Cd(55.5 m)	961.84(4.69), 346.870(4.20), 1302.459(3.98)
896.65 14	0.0039 13	¹⁴⁹ Nd(1.728 h)	211.309(25.9), 114.314(19.2), 270.166(10.7)
896.66 4	5.37 22	²⁰⁸ At(1.63 h)	686.527(98), 660.040(89), 177.595(48.6)
896.7 2	0.050 12	¹³³ Te(12.5 m)	312.072(62), 407.63(27.1), 1333.21(10.67)
896.7 2	0.31 3	¹⁴⁶ Ba(2.22 s)	140.7(20.2), 251.2(19.6), 121.2(14.2)
896.7 1	0.136 17	¹⁹¹ Au(3.18 h)	586.45(17), 277.88(7.2), 674.19(6.8)
896.73 13	1.56 24	¹⁸³ Ir(58 m)	392.52(10.4), 228.70(6.9), 87.67(5.6)
896.87 12	0.132 13	¹³⁸ Xe(14.08 m)	258.411(31.5), 434.562(20.3), 1768.26(16.7)
• 896.90 15	0.69 10	⁹⁹ Rh(16.1 d)	528.24(33), 353.05(30.0), 89.65(29.0)
896.9 5	$\dagger 9$	¹⁰⁶ Nb(1.02 s)	171.548($\dagger 100$), 350.70($\dagger 39$), 714.00($\dagger 30$)
896.9 5	$\dagger 2.0$	¹¹⁰ Tc(0.92 s)	240.67($\dagger 100$), 372.1($\dagger 17.0$), 613.0($\dagger 16.0$)
896.9 3	13	²⁰³ Bi(11.76 h)	820.3(30), 825.2(14.6), 1847.4(11.4)
897 1	0.170 22	⁷⁶ Br(16.2 h)	559.101(74), 657.041(15.9), 1853.67(14.7)
897.0 6	0.48 10	⁸⁹ Kr(3.15 m)	220.948(20.1), 586.03(16.6), 904.27(7.2)
897 1	>0.35	¹¹³ Ag(68.7 s)	316.3(18), 392.3(11), 298.58(10)
897 1	0.005 3	¹²⁸ Cs(3.66 m)	442.901(26.8), 526.557(2.41), 1140.079(1.168)
897.0 15	0.0028 18	¹⁵⁷ Dy(8.14 h)	326.16(92), 182.20(1.84), 83.01(0.62)
897.0 10	0.57 17	¹⁹¹ Hg(50.8 m)	252.5(57), 420.1(18.6), 578.6(17.6)
897.0 3	$\dagger 0.62$	¹⁹⁴ Bi(92 s)	965.4($\dagger 100.0$), 575.1($\dagger 98.0$), 280.1($\dagger 73.7$)
897.04 16	0.021 5	¹³⁰ I(12.36 h)	536.09(99), 668.54(96), 739.48(82)
897.05 30	0.32 7	¹⁴¹ Xe(1.73 s)	909.23(24.0), 118.705(16.1), 105.937(9.8)
897.1 4	$\dagger 0.60$	¹⁴⁴ Cs(1.01 s)	199.326($\dagger 100.0$), 639.00($\dagger 21.2$), 758.96($\dagger 20.6$)
• 897.13 4	0.0134 14	¹⁷¹ Lu(8.24 d)	739.78(47.8), 19.394(13.7), 667.404(11.04)
897.14 7	1.00 5	¹⁵⁵ Ho(48 m)	240.19(12.5), 136.30(5.00), 45.38(5)
897.2 5	0.09 4	¹¹⁵ Ag(20.0 m)	229.08(18), 212.80(4.4), 472.70(4.0)
897.2 3	0.137 8	¹⁵³ Dy(6.4 h)	80.723(11.10), 213.754(10.90), 99.659(10.51)
897.3 4	0.091 14	¹⁸⁷ Au(8.4 m)	1331.81(7.0), 1408.23(3.06), 914.73(3.02)
• 897.3 4	0.010 3	¹⁹⁵ Hg(41.6 h)	261.75(30.9), 560.27(7), 387.87(2.15)
• 897.33 10	0.008 1	²³⁸ Np(2.117 d)	984.45(27.8), 1028.54(20.3), 1025.87(9.6)
897.33 10	0.56 6	²³⁸ Am(98 m)	962.77(28), 918.69(23.0), 561.11(10.9)
• 897.33 10	0.000022	²⁴² Cm(162.8 d)	44.08(0.0325), 101.90(0.0025), 157.42(0.0014)
897.4	2	¹¹¹ Sb(75 s)	154.48(71), 489.1(42), 1032.6(10.0)
897.45 21	3.1	⁶⁷ As(42.5 s)	122.7(19.2), 120.8(9.3), 243.6(7.8)
897.45 14	0.065 12	¹⁸³ Au(42.0 s)	161.18(9.4), 214.13(5.9), 313.08(5.0)
897.5 4	0.96 12	¹⁰⁹ Sn(18.0 m)	1099.4(30), 649.90(28.0), 1321.3(11.9)
897.5 5	0.38 16	¹¹⁹ Ag(2.1 s)	626.4(13), 366.2(12.1), 399.1(10.9)
897.5 2	$\dagger 7.7 \times 10^3$	²³¹ In(18.0 m)	1065.55($\dagger 80000$), 1249.71($\dagger 44000$), 1163.85($\dagger 32000$)
• 897.59 5	0.097 9	¹⁵⁸ Tb(180 y)	944.09(44), 962.06(20.3), 79.5104(11.6)
897.60 4	10.3 5	¹⁵⁸ Eu(45.9 m)	944.09(25), 977.131(13.6), 79.5104(11)
• 897.60 4	0.145 9	¹⁵⁸ Tb(180 y)	944.09(44), 962.06(20.3), 79.5104(11.6)
897.6 5	0.15 4	¹⁷⁰ Ta(6.76 m)	100.8(21.0), 221.2(15.7), 860.4(7.39)
897.603 11	0.50 5	⁷⁵ Br(96.7 m)	286.572(88), 141.3147(6.6), 427.883(4.4)
897.65 9	0.311 15	¹⁵¹ Nd(12.44 m)	116.80(43.4), 255.68(16.4), 1180.89(14.8)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
897.7 4	0.8 7	¹²⁹ Sn(2.23 m)	645.13(100), 80.5(6.6), 913.2(5.0)
897.80 5	0.260 9	²⁰⁷ Tl(4.77 m)	569.702(0.00159), 328.12(0.00140)
• 897.80 5	0.121 8	²⁰⁷ Bi(31.55 y)	569.702(97.74), 1063.662(74.5), 1770.237(6.87)
897.80 5	1.65 11	²¹¹ Po(25.2 s)	1063.662, 569.702
897.80 5	0.561 11	²¹¹ Po(0.516 s)	569.702(0.5), 328.12(0.0033)
897.83 18	0.031 3	¹⁵¹ Tb(17.609 h)	287.357(28.3), 251.863(26.3), 108.088(24.3)
897.848 7	28 8	²⁴⁴ Am(10.1 h)	743.971(66), 153.863(16), 99.383(4.6)
897.9 1	0.74 4	¹⁰⁷ Ru(3.75 m)	194.05(9.9), 847.93(5.3), 462.61(3.66)
897.9 6	0.27 17	²⁰⁴ Au(39.8 s)	436.551(91), 1511.10(25.2), 691.80(24.0)
898.00 15	0.96 10	⁶⁷ Ge(18.9 m)	167.01(84), 1472.48(4.9), 910.92(3.1)
898.0 5	0.043 10	⁹³ Kr(1.286 s)	253.42(41.2), 323.89(24.1), 266.83(20.6)
898.0 4	0.036 9	¹²⁰ Xe(40 m)	25.1(30), 72.6(9), 178.1(6.8)
898.0	0.18	¹³³ Pr(6.5 m)	134.3(14), 74.0(10), 315.6(10)
898.042 3	14.04 9	⁸⁸ Rb(17.78 m)	1836.063(21.40), 2677.892(1.96), 1382.406(0.74)
• 898.042 3	93.7 3	⁸⁸ Y(106.65 d)	1836.063(99.2), 2734.086(0.71), 850.647(0.065)
• 898.06 16	0.00018 5	⁹⁷ Ru(2.9 d)	215.718(86), 324.48(10.79), 569.31(0.873)
898.1 3	0.159 8	¹⁴³ Ba(14.33 s)	211.475(25), 798.79(15.6), 980.45(11.55)
898.10 12	4.25 19	¹⁶⁴ Tm(5.1 m)	208.08(14.6), 314.97(10), 240.49(7.5)
• 898.1 3	1.8×10^{-8} 4	²³⁹ Pu(24110 y)	51.624(0.007100), 38.661(0.000500), 129.297(0.00631)
898.167 25	0.0489 11	¹⁵⁹ Ho(33.05 m)	121.012(36.2), 131.973(23.6), 309.594(17.2)
898.17 6	0.0099 4	¹⁰⁷ Cd(6.50 h)	93.124(1.45), 828.93(0.17), 796.462(0.0665)
898.2 3	0.66 5	⁶⁹ Cu(2.85 m)	1007.5(23.4), 834.4(13.1), 531.2(6.0)
898.2 2	0.0006 3	¹²³ I(13.27 h)	158.97(83), 528.96(1.39), 440.02(0.428)
898.2 6	0.05 4	¹⁶¹ Er(3.21 h)	826.6(3.0), 211.15(12.2), 592.6(3.7)
898.2 2	†6.3 6	¹⁸⁵ Hg(21.6 s)	222.8(†100.0), 258.7(†98), 212.5(†58)
• 898.37	0.0020 5	¹⁵⁴ Eu(8.593 y)	123.071(40.79), 1274.436(35.19), 723.304(20.22)
898.4 20	0.0007 3	⁵⁷ Mn(87.2 s)	122.0614(13.9), 14.41300(10.56), 692.03(5.50)
898.4 3	0.27 8	¹⁴² Tb(597 ms)	515.0(25), 465.0(2.7), 853.1(2.42)
898.4 8	0.0033	²³³ Th(22.3 m)	86.477(2.7), 29.374(2.5), 459.222(1.4)
• 898.4	†7×10 ⁰² 3	²⁴¹ Am(432.2 y)	59.537(†60), 26.345(†1000×10 ⁹), 33.195(†6000×10 ⁸)
898.5 5	0.16 4	⁷⁶ Kr(14.8 h)	315.7(39), 270.2(21.1), 45.48(19.5)
898.5 3	12.5 23	⁹⁸ Cd(9.2 s)	347.18(78), 1176.1(66.3), 107.28(43.7)
898.50 4	18.9 9	¹⁰⁰ Sr(202 ms)	963.85(22.0), 65.46(15.2), 10.68(9.7)
898.5 4	†1.4 5	¹³¹ Sn(56.0 s)	1226.03(†100), 450.03(†90), 798.50(†86)
898.5 2	1.28 12	¹⁵⁶ Tm(83.8 s)	344.55(86), 452.85(17.2), 585.93(14.6)
898.5 4	0.07 3	¹⁹⁸ Tl(5.3 h)	411.8044(82), 675.8874(11), 636.4(10.1)
898.5 4	†3.0 5	¹⁹⁸ Tl(1.87 h)	636.4(†202), 411.8044(†202), 587.2(†185)
• 898.533 11	0.62 4	²⁰⁰ Tl(26.1 h)	367.943(87), 1205.717(29.9), 579.298(13.8)
898.54 3	0.138 7	¹³¹ Te(25.0 m)	149.716(69), 452.323(18.18), 1146.96(4.95)
• 898.58 12	0.0248 22	¹⁵¹ Pm(28.40 h)	340.08(23), 167.75(8.3), 275.21(6.8)
898.67 5	3.24 21	²³⁴ Pa(6.70 h)	131.30(18), 946.00(13.4), 883.24(9.6)
898.68 10	0.254 25	²³⁰ Ac(122 s)	454.95(8), 508.20(5.15), 1243.9(3.50)
• 898.68 10	5.8 3	²³⁰ Pa(17.4 d)	951.95(1.65), 918.48(8.2), 454.95(6.27)
898.7 3	0.086 5	⁸⁵ Y(4.86 h)	231.67(22.8), 2123.8(5.0), 767.40(3.6)
898.7 2	0.82 4	²²⁸ Fr(39 s)	473.7(10.2), 474.0(7.6), 410.40(6.3)
898.7 2	0.89 9	²³⁰ Fr(19.1 s)	711.0(13.6), 129.1(11.0), 728.4(7.3)
898.8 7	0.19 4	¹²⁷ Sn(2.10 h)	1114.3(39), 1095.6(20), 823.1(10.9)
898.8 2	0.162 18	¹⁶⁷ Lu(51.5 m)	29.66(14.4), 239.22(8.6), 213.19(3.6)
• 898.83 10	0.028 12	¹⁵⁶ Tb(5.35 d)	534.318(66.6), 199.2132(40.9), 1222.36(31.00)
898.92 2	0.24 8	¹⁴⁵ Cs(0.594 s)	175.36(20), 198.93(10.9), 112.46(10.71)
898.97 4	0.34 5	²⁰² Bi(1.72 h)	960.67(99), 422.18(83.7), 657.49(60.6)
899.0 4	0.0123 25	⁶³ Zn(38.47 m)	669.62(8), 962.06(6.5), 1412.08(0.75)
899.0 3	0.99 15	¹²¹ Cd(13.5 s)	324.976(49.5), 1040.26(16.8), 349.937(12.9)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
899.0 1	$\dagger 1.60$ 16	^{171}Ta (23.3 m)	49.6($\dagger 100$), 506.4($\dagger 54$), 501.8($\dagger 22.6$)
899.0 3	0.35 5	^{184}Au (53.0 s)	162.97(50), 272.98(40), 362.47(17.5)
899.04 5	44.8 25	^{132}Sn (39.7 s)	340.53(49), 85.58(48.2), 246.87(42.3)
• 899.071 15	0.941 10	^{150}Eu (35.8 y)	333.971(96), 439.401(80.4), 584.274(52.6)
899.10 8	0.678 22	^{177}Yb (1.911 h)	150.392(20.3), 1080.21(5.6), 1241.2(3.47)
899.124 11	0.99 4	^{173}Hf (23.6 h)	123.672(83), 296.974(33.9), 139.634(12.7)
899.132 13	0.0108 25	^{173}Hf (23.6 h)	123.672(83), 296.974(33.9), 139.634(12.7)
899.15 3	98 8	^{204}Bi (11.22 h)	374.72(82), 984.02(59), 911.78(13.5)
899.2	0.18	^{95}Sr (23.90 s)	685.6(23), 2717.3(4.6), 2933.1(4.1)
899.2 5	0.20 8	^{126}Ba (100 m)	233.6(19.6), 257.6(7.6), 241.0(6.0)
899.2 2	$\dagger 49$ 5	^{130}Sn (1.7 m)	144.9($\dagger 100$), 84.7($\dagger 42$), 311.3($\dagger 41$)
899.3 5	0.050 13	^{121}Xe (40.1 m)	252.7(13), 132.8(10.9), 445.2(7.7)
• 899.3 6	0.009 5	^{153}Tb (2.34 d)	212.038(31.0), 170.504(6.8), 109.758(6.4)
899.3 10	0.034 17	^{245}Pu (10.5 h)	327.428(25.4), 560.13(5.4), 308.222(4.9)
899.32 3	4.6 3	^{132}La (4.8 h)	464.55(76), 567.14(15.7), 1909.91(9.0)
899.32 3	6.7 9	^{132}La (24.3 m)	464.55(22), 663.07(11.6), 285.6(7)
899.38 5	0.0075 5	^{133}La (3.912 h)	278.835(2.50), 302.353(1.648), 290.06(1.413)
899.39 6	2.48 15	^{204}At (9.2 m)	684.341(95), 516.318(90), 426.253(67.5)
899.4 2	0.48 6	^{101}Ag (11.1 m)	261.0(53), 588.0(10.0), 667.3(9.8)
899.4 2	$\dagger 1$	^{139}I (2.29 s)	527.7($\dagger 100$), 571.2($\dagger 98$), 536.6($\dagger 67$)
899.43	0.0515 25	^{42}K (12.360 h)	1524.70(18), 312.6(0.336), 1922.18(0.041)
899.43	0.70 30	^{42}Sc (61.7 s)	436.92(100), 1524.70(99.70), 1227.66(99.0)
899.47 15	0.20 3	^{183}Au (42.0 s)	161.18(9.4), 214.13(5.9), 313.08(5.0)
899.5 3	0.14 10	^{117}Ag (5.34 s)	135.4(48), 386.8(39.9), 298.1(21.1)
899.5 2	0.125 21	^{183}Ir (58 m)	392.52(10.4), 228.70(6.9), 87.67(5.6)
• 899.5 3	0.039 7	^{195}Hg (41.6 h)	261.75(30.9), 560.27(7), 387.87(2.15)
899.5 4	0.034 16	^{195}Tl (1.16 h)	563.52(10.5), 884.47(10.0), 1363.88(8.4)
• 899.57 19	2.06 15	^{146}Eu (4.59 d)	747.2(98), 633.03(43), 634.07(37)
899.6 4	2.44 24	^{123}Xe (2.08 h)	148.9(49), 178.1(14.9), 330.2(8.6)
899.6 3	$\dagger 2.6$ 3	^{182}Au (21 s)	154.76($\dagger 100$), 264.33($\dagger 40.0$), 855.41($\dagger 14.5$)
899.7	$\dagger 6$	^{99}Cd (16 s)	342.6($\dagger 100$), 671.8($\dagger 31$), 1583.3($\dagger 28$)
899.7	$\dagger 16.9$ 4	^{178}Ir (12 s)	266.1($\dagger 100.0$), 131.6($\dagger 79$), 363.1($\dagger 39.9$)
899.79 8	0.133 13	^{187}Ir (10.5 h)	912.95(4.79), 427.12(4.12), 400.89(3.94)
• 899.8 4	0.0137 20	^{124}Sb (60.20 d)	602.730(97.8), 1690.980(47.3), 722.786(10.76)
• 899.8 4	0.030 16	^{124}I (4.18 d)	602.730(60), 1690.980(10.41), 722.786(9.98)
899.8 5	0.025 8	^{143}Ba (14.33 s)	211.475(25), 798.79(15.6), 980.45(11.55)
899.80 18	0.0038 8	^{166}Tm (7.70 h)	778.817(18.9), 2052.36(17.2), 184.410(16.1)
899.9 10	0.18 6	^{99}Rh (4.7 h)	340.71(70), 617.8(12.0), 1261.2(11)
899.9 4	5.6 4	^{162}Tm (21.70 m)	102.00(17.5), 798.68(8.4), 227.52(7)
899.9 4	2.7 6	^{162}Tm (24.3 s)	811.52(6.5), 798.68(5.2), 227.52(5)
• 899.90 10	0.109 12	^{188}Ir (41.5 h)	155.032(29.7), 2214.62(18.7), 632.99(18)
900.0 10	0.22 6	^{74}Kr (11.50 m)	89.65(31), 203.0(18.0), 296.67(9.9)
900.00 5	0.221 25	^{103}Ag (65.7 m)	118.72(31.2), 148.193(28.3), 266.86(13.3)
900.0 4	0.062 12	^{158}Tm (3.98 m)	192.13(62), 335.10(16.8), 1149.83(7.6)
900 1	3.0 15	^{174}Re (2.40 m)	243.4(37), 113.0(19.8), 1002.9(5.62)
900.0 4	$\dagger 4.6$ 7	^{191}Tl (5.22 m)	452.6($\dagger 100$), 470.1($\dagger 98$), 391.6($\dagger 96$)
900.04 5	0.327 19	^{153}Dy (6.4 h)	80.723(11.10), 213.754(10.90), 99.659(10.51)
900.1 4	0.045 9	^{120}Xe (40 m)	25.1(30), 72.6(9), 178.1(6.8)
900.1 3	0.29 6	^{121}Ag (0.78 s)	314.55(32.1), 353.43(19.9), 500.61(9.3)
900.1 6	0.27 3	^{136}Pr (13.1 m)	552.16(76), 539.75(52), 1092.3(18.5)
900.15 5	0.48 6	^{174}Ta (1.05 h)	206.50(58), 91.00(16.0), 1205.92(4.9)
900.16 8	0.39 7	^{139}Nd (5.50 h)	113.94(40), 737.96(35), 982.2(26.4)
900.2 3	0.27 7	^{121}Cs (155 s)	153.9(15.2), 239.6(7.7), 427.1(3.63)
900.2 3	0.21 5	^{121}Cs (122 s)	179.4(30.2), 196.0(24.1), 459.7(12.0)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
900.2 1	0.163 15	¹⁵¹ Nd(12.44 m)	116.80(43.4), 255.68(16.4), 1180.89(14.8)
900.2 4	0.68 10	¹⁷⁵ Ta(10.5 h)	207.4(14.0), 348.5(12.0), 266.9(10.8)
• 900.2	8.0×10^{-6}	²⁵³ Es(20.47 d)	41.79(0.050), 389.11(0.0264), 387.1(0.00810)
900.3 5	0.35 6	¹³⁶ Nd(50.65 m)	108.90(32), 40.2(18.9), 574.8(10.4)
900.3 1	0.037 4	¹⁷⁶ Ta(8.09 h)	1159.28(25), 88.34(12), 1224.93(6)
900.37 10	0.160 20	²⁴⁰ Np(7.22 m)	554.60(20.9), 597.40(11.7), 1496.9(1.33)
• 900.37 10	0.001	²⁴⁰ Am(50.8 h)	987.76(73.2), 888.80(25.1), 98.860(1.5)
• 900.37 10	1.2×10^{-6}	²⁴⁴ Cm(18.10 y)	42.824(0.044100), 98.860(0.001470), 152.63(<4.9 $\times 10^{-7}$)
900.4 1	0.09 1	¹⁰⁷ Tc(21.2 s)	102.70(21.0), 177.00(9.2), 106.31(7.6)
900.4 5	2.52 24	¹⁷⁶ Tm(1.9 m)	189.57(44.5), 1069.3(34), 381.8(21.8)
900.41 5	0.00252 25	¹⁶⁵ Dy(2.334 h)	94.700(3.58), 361.68(0.84), 633.415(0.568)
900.5 4	0.16 4	⁹¹ Kr(8.57 s)	108.788(43.5), 506.592(19.1), 612.87(7.7)
900.5 4	0.15 8	¹⁸⁵ Au(4.25 m)	310.6(13), 243.1(6.6), 77.7(6)
900.5 3	†1.9 5	¹⁸⁹ Hg(7.6 m)	320.99(†100), 78.21(†63), 565.42(†48)
900.7 6	0.44 7	¹⁰⁹ In(4.2 h)	203.5(74), 623.7(5.5), 1148.9(4.3)
900.7 5	0.20 6	¹⁴⁰ Xe(13.60 s)	805.52(20), 1413.66(12.2), 1315.05(8.2)
900.7 2	†0.14 5	¹⁶⁰ Ho(5.02 h)	728.18(†100), 879.383(†65.9), 962.317(†59.1)
900.7 4	6.5 3	¹⁶² Tm(21.70 m)	102.00(17.5), 798.68(8.4), 227.52(7)
900.7 4	4.0 8	¹⁶² Tm(24.3 s)	811.52(6.5), 798.68(5.2), 227.52(5)
900.7 10		¹⁹⁶ Tl(1.41 h)	426.0(†540), 635.5(†304), 695.6(†243)
• 900.724 20	29.8 4	¹⁷² Lu(6.70 d)	1093.657(62.5), 181.528(20.6), 810.064(16.63)
900.73 10	0.1504 22	⁷³ Se(7.15 h)	360.80(108), 67.03(78), 865.09(0.584)
900.79 4	0.35 6	¹⁸² Re(12.7 h)	67.75001(38.2), 1121.3007(32), 1221.4066(24.8)
900.8 5	0.15 5	¹¹² Sb(51.4 s)	1257.05(96), 990.70(14.3), 670.0(3.7)
900.8 5	0.28 5	¹¹² Sb(51.4 s)	1257.05(96), 990.70(14.3), 670.0(3.7)
900.8 3	†3.2 6	¹⁸⁵ Pt(33.0 m)	229.60(†100), 135.3(†80), 197.4(†74)
• 900.93 19	2.25 21	¹⁴⁶ Eu(4.59 d)	747.2(98), 633.03(43), 634.07(37)
900.97 11	0.121 3	⁷⁷ Ge(11.30 h)	264.44(54), 211.03(30.8), 215.50(28.6)
900.97 10	0.103 19	⁹⁸ Nb(51.3 m)	787.374(93), 722.645(73.8), 1168.830(17.8)
900.98 7	0.68 4	⁹³ Sr(7.423 m)	590.238(67), 875.73(24.1), 888.13(21.8)
901.0 7	0.155 15	⁷⁶ Br(16.2 h)	559.101(74), 657.041(15.9), 1853.67(14.7)
901.0 4	0.46 6	¹¹⁸ Cs(14 s)	337.4(100), 472.8(37.4), 586.6(15.4)
901.0 3	0.28 5	¹⁴⁹ Dy(4.20 m)	100.8(15.2), 789.4(11.8), 1776.3(11.1)
901.08 18	0.110 14	⁹³ Rb(5.84 s)	432.61(17.4), 986.05(6.8), 213.429(6.7)
901.1 1	0.057 5	¹⁴¹ Pm(20.90 m)	1223.26(4.74), 886.22(2.44), 193.68(1.61)
901.186 11	1.81 14	¹⁵² Pm(7.52 m)	244.6989(78), 121.7824(45), 340.48(31.3)
• 901.186 11	0.092 6	¹⁵² Eu(13.542 y)	121.7824(28.4), 1408.011(20.87), 964.131(14.34)
901.23 15	0.017 4	²²⁸ Ac(6.15 h)	911.205(26.6), 968.971(16.2), 338.322(11.3)
901.3 1	2.3 3	⁷⁵ Zn(10.2 s)	228.67(28.9), 432.29(20.2), 155.94(17.2)
901.3 2	0.094 3	⁹¹ Sr(9.63 h)	1024.3(33), 749.8(23.61), 652.9(8.0)
901.3 2	0.016 4	¹¹⁹ I(19.1 m)	257.52(87), 635.86(2.69), 320.53(2.17)
901.3 4	0.074 25	¹²⁹ La(11.6 m)	278.6(25), 110.5(16.9), 457.0(8.0)
901.3 1	†30 3	²¹⁰ Fr(3.18 m)	643.8(†100), 817.6(†60), 203.1(†35)
901.31 10	28 3	¹⁰⁸ Rh(6.0 m)	433.937(88), 581.1(60), 947.27(49)
• 901.40 20	0.067 3	¹⁷⁰ Lu(2.00 d)	84.2551(4.256), 1280.25(3.450), 2041.88(1.434)
901.5 1	0.58 14	⁷⁵ Zn(10.2 s)	228.67(28.9), 432.29(20.2), 155.94(17.2)
901.5 3	0.23 3	⁷⁵ Kr(4.3 m)	132.43(67), 154.66(20.8), 153.15(8.0)
901.5 3	0.026 5	⁸⁷ Kr(76.3 m)	402.586(49.6), 2554.8(9.2), 845.43(7.34)
901.5 6	0.41 16	¹⁶⁶ Lu(2.65 m)	228.12(77.3), 337.50(41), 367.95(31.4)
901.505 32	0.580 13	¹²⁵ Xe(16.9 h)	188.418(54), 243.378(30.1), 54.968(6.81)
901.53 5	1.97 10	¹¹⁰ In(4.9 h)	657.7622(98.3), 884.685(92.9), 937.493(68.4)
901.6 1	0.128 10	²⁵¹ Fm(5.30 h)	880.8(2.19), 453.1(1.45), 405.6(0.99)
901.61 10	0.37 3	¹⁹⁷ Tl(2.84 h)	425.84(12.9), 152.22(7.2), 1411.34(4.5)
901.68 11	3.2 4	¹⁹⁷ Pb(8 m)	385.85(50), 761.14(13.3), 375.48(12.8)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
901.7 1	87	⁷⁰ Cu(47 s)	884.9(100), 1251.7(57), 1107.9(7.8)
901.7 5	>0.41	¹⁶¹ Tm(33 m)	45.54(5.00), 1648.1(9.50), 84.40(9.4)
901.76 5	0.60 4	⁷⁹ Ga(2.847 s)	464.79(24.2), 516.41(21.5), 1187.28(12.8)
901.79 15	0.20 3	¹³³ Ce(4.9 h)	477.22(39), 510.36(20.7), 58.39(19.2)
901.8	70.4 20	³⁶ P(5.6 s)	3290.7(100), 1638.2(35.3), 2539.9(17.4)
901.8 2	0.114 21	¹⁸³ Ir(58 m)	392.52(10.4), 228.70(6.9), 87.67(5.6)
901.8 3	0.029 3	¹⁹² Au(4.94 h)	316.50791(58.0), 295.95827(22.3), 2236.89(5.6)
• 901.89 18	†0.044 4	⁵² Mn(5.591 d)	1434.068(†100.0), 935.538(†94.9), 744.233(†90.6)
901.9 5	1.43 17	⁷⁰ As(52.6 m)	1039.20(81), 1114.1(21.8), 668.3(21.8)
901.9 3	0.38	¹⁵⁴ Pm(1.73 m)	2057.76(17.1), 1393.9(14.4), 81.99(12.6)
901.9 3	1.45	¹⁵⁴ Pm(2.68 m)	184.810(32), 81.99(15.4), 546.66(14.5)
• 901.90 4	0.129 5	²⁰⁵ Bi(15.31 d)	1764.36(1.368), 703.44(31), 987.62(0.585)
901.9 8	0.051 25	²⁴⁵ Pu(10.5 h)	327.428(25.4), 560.13(5.4), 308.222(4.9)
901.95 19	0.084 21	¹⁸⁷ Au(8.4 m)	1331.81(7.0), 1408.23(3.06), 914.73(3.02)
902 2	†10 3	¹⁸⁹ Au(28.7 m)	713.17(†100), 812.68(†63), 447.65(†55)
902.0 6	0.010 3	¹⁹⁹ Pt(30.80 m)	542.993(15), 493.772(5.59), 317.056(4.95)
902.0 5	8.4 4	²⁰¹ Bi(108 m)	629.1(24.0), 936.2(11.3), 1014.1(10.7)
902.03 11	0.325 25	¹⁵⁵ Ho(48 m)	240.19(12.5), 136.30(5.00), 45.38(5)
902.1 5	0.113 25	¹²¹ Xe(40.1 m)	252.7(13), 132.8(10.9), 445.2(7.7)
902.15 17	†6.2 13	¹⁸³ Hg(9.4 s)	60.5(†100), 159.91(†21), 172.70(†17)
902.16 15	†0.40 3	¹⁵³ Pm(5.4 m)	35.842(†100), 127.298(†75), 28.309(†34.6)
902.18 14	0.102 24	¹⁶³ Tm(1.810 h)	104.320(18.6), 69.229(11.6), 241.305(10.9)
902.18 22	1.2 3	¹⁶⁸ Lu(6.7 m)	198.82(28), 979.22(20), 896.12(15)
902.2 15	0.68 9	²¹² Fr(20.0 m)	1273.8(46), 227.72(43), 1185.6(14.1)
902.22 10	0.435 21	²⁰⁵ At(26.2 m)	719.30(31), 669.41(8.6), 628.88(5.6)
• 902.24 4	0.147 3	¹⁷¹ Lu(8.24 d)	739.78(47.8), 19.394(13.7), 667.404(11.04)
902.25 10	0.248 15	¹⁴¹ Cs(24.94 s)	48.53(7.90), 561.63(4.7), 1194.02(3.95)
902.294 20	0.083 5	⁶¹ Cu(3.333 h)	282.956(12.2), 656.008(10.77), 67.412(4.23)
902.3 1	5.0 11	¹²⁹ Sn(6.9 m)	1161.31(56.0), 1128.44(50), 760.8(16.8)
902.3 3	0.044 13	¹³⁸ Xe(14.08 m)	258.411(31.5), 434.562(20.3), 1768.26(16.7)
902.3 3	0.32 9	¹⁵⁹ Tm(9.13 m)	38.35(5.8), 84.8(5.8), 271.30(5.1)
902.32 12	3.7 3	⁷⁹ Ge(39.0 s)	230.62(61), 542.27(32.6), 755(18)
902.4 3	0.61 5	¹⁰³ Tc(54.2 s)	346.380(17.5), 136.079(16.6), 562.90(7.0)
902.4 2	†3.5 3	¹⁵² Tb(17.5 h)	344.281(†1500), 586.294(†223), 271.135(†203)
902.5 1	0.19 3	¹³³ Te(12.5 m)	312.072(62), 407.63(27.1), 1333.21(10.67)
• 902.5	†3.0×10 ³ 5	²⁴¹ Am(432.2 y)	59.537(†60), 26.345(†1000×10 ⁹), 33.195(†6000×10 ⁸)
• 902.53 9	0.247 9	²⁰⁶ Po(8.8 d)	1032.26(32.9), 511.36(24.1), 286.410(23.8)
902.6 1	0.49 4	¹⁰⁹ Ru(34.5 s)	206.29(22.0), 225.98(19.6), 1929.05(13.7)
902.6 5	0.23 7	¹⁵⁷ Tm(3.63 m)	455.00(9.3), 385.5(8.8), 348.40(8.4)
902.6	1	²⁰⁰ Bi(36.4 m)	1026.5(100), 462.34(98), 419.70(91)
902.6 3	0.130 10	²²⁶ Fr(48 s)	253.73(22.3), 186.05(16.3), 253.9(2.5)
902.6 4	0.0180 24	²³⁵ Pu(25.3 m)	49.10(2.36), 756.4(0.479), 34.23(0.23)
902.6 3	0.018 6	²⁴⁹ Es(102.2 m)	379.5(40.4), 813.2(9.2), 375.1(3.3)
902.62 4	3.52 20	¹²² In(10.3 s)	1140.55(98), 1001.58(50.7), 1190.58(20.5)
902.64 7	0.032 7	¹⁸⁹ Pt(10.87 h)	721.41(9.3), 94.33(7.6), 568.84(7.1)
902.7 3	0.9 3	¹¹⁹ Cd(2.69 m)	292.9(36.8), 343.0(16.9), 1609.7(10.9)
902.7 3	1.12 25	¹¹⁹ Cd(2.20 m)	1025.0(24.8), 2021.3(22.6), 720.7(17.9)
902.795 7	90 3	¹⁸⁰ Re(2.44 m)	103.557(22.2), 825.357(9.9), 749.345(1.12)
902.8 6	0.80 14	⁸⁹ Kr(3.15 m)	220.948(20.1), 586.03(16.6), 904.27(7.2)
902.8 2	1.59 8	⁹¹ Tc(3.14 m)	2450.90(13.5), 1639.90(9.2), 1605.20(7.77)
• 902.9 3	0.072 9	⁸³ Sr(32.41 h)	762.65(30), 381.53(14.1), 418.37(4.41)
902.9 3	0.40 6	¹⁴⁰ Xe(13.60 s)	805.52(20), 1413.66(12.2), 1315.05(8.2)
902.99 7	0.295 15	¹⁸⁷ Ir(10.5 h)	912.95(4.79), 427.12(4.12), 400.89(3.94)
903		⁵⁵ V(6.54 s)	517.71(73), 880.70(18.1), 921.10(4.6)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
903.0 5	2.9	⁸² As(13.6 s)	654.6(72), 343.5(58), 1895.4(39)
903.0 10	0.13 4	¹⁰⁰ Rh(20.8 h)	539.59(78.4), 2376.1(35.3), 1553.4(21)
903.0 5	0.32 11	¹⁶⁴ Tb(3.0 m)	168.838(25.4), 754.80(23.3), 215.07(21)
903 1	3.7 15	¹⁷⁴ Re(2.40 m)	243.4(37), 113.0(19.8), 1002.9(5.62)
903.0 1	3.65 10	²⁰⁹ At(5.41 h)	545.0(91), 781.9(83.5), 790.2(63.5)
903.01 13	0.0055 10	¹⁶⁶ Tm(7.70 h)	778.817(18.9), 2052.36(17.2), 184.410(16.1)
903.1	†0.56 19	¹⁷⁸ Ir(12 s)	266.1(†100.0), 131.6(†79), 363.1(†39.9)
903.1 10	0.50 17	¹⁷⁹ Re(19.5 m)	430.221(28), 289.968(26.9), 1680.244(13.0)
903.1 5	†0.71 19	¹⁸⁹ Hg(7.6 m)	320.99(†100), 78.21(†63), 565.42(†48)
903.2 6	0.0046 23	⁸¹ Rb(4.576 h)	190.38(64.0), 446.15(23.2), 510.31(5.3)
903.2 3	2.2 9	¹⁴⁰ Gd(15.8 s)	174.8(76), 749.9(70), 379.0(38)
903.2 3	0.122 14	¹⁶⁷ Lu(51.5 m)	29.66(14.4), 239.22(8.6), 213.19(3.6)
903.279 7	15.0 4	¹⁸⁴ Ta(8.7 h)	414.03(72), 252.848(43), 920.932(32.0)
• 903.279 7	37.9 6	¹⁸⁴ Re(38.0 d)	792.071(37.5), 111.208(17.1), 894.757(15.6)
• 903.279 7	3.74 8	¹⁸⁴ Re(169 d)	252.848(10.7), 216.548(9.43), 920.932(8.14)
903.3 4	0.47 6	¹⁰⁷ In(32.4 m)	204.97(47), 505.51(11.9), 320.92(10.2)
903.3 3	1.40 12	¹⁴⁸ Pr(2.27 m)	301.702(61), 1357.78(5.5), 1023.18(4.8)
903.3 2	0.0068 18	¹⁶⁷ Yb(17.5 m)	113.34(55.3), 106.18(22.5), 176.25(21)
903.3 4	†100 6	¹⁷¹ Ho(53 s)	198.6(†88), 279.2(†60), 532.2(†58)
903.4 19	0.22 10	¹⁴¹ Xe(1.73 s)	909.23(24.0), 118.705(16.1), 105.937(9.8)
• 903.42 23	0.040 16	¹⁶⁹ Lu(34.06 h)	960.622(23.4), 191.2137(20.6), 1449.74(9.92)
903.5 2	4.7 23	¹⁰³ Zr(1.3 s)	248(100), 164.05(94), 126.30(84)
903.5 6	>0.13	¹⁰⁸ Sn(10.30 m)	396.44(64.3), 272.75(45.5), 669.08(22.6)
• 903.5 5	0.013 3	¹²⁵ Sn(9.64 d)	1067.10(10), 1089.15(4.59), 822.48(4.28)
903.5 5	0.24 8	¹²⁶ Ba(100 m)	233.6(19.6), 257.6(7.6), 241.0(6.0)
• 903.5 5	0.0032 9	¹⁵¹ Pm(28.40 h)	340.08(23), 167.75(8.3), 275.21(6.8)
903.5 3	0.39 5	¹⁷⁷ W(135 m)	115.65(50), 426.98(13.2), 1036.4(10.3)
903.5 4	0.06 3	¹⁸⁵ Au(4.25 m)	310.6(13), 243.1(6.6), 77.7(6)
903.6 11	2.3 4	³¹ Mg(230 ms)	1613.0(36), 946.8(31.5), 1626.1(24.8)
903.6 4	0.08 3	⁷⁸ As(90.7 m)	613.725(54), 694.916(16.7), 1308.59(13.0)
903.6 1	0.79 5	⁹² Ru(3.65 m)	213.81(96), 259.32(92), 134.57(65.5)
• 903.60 8	0.57 4	¹⁵³ Tb(2.34 d)	212.038(31.0), 170.504(6.8), 109.758(6.4)
• 903.62 10	0.040 5	¹⁵⁶ Eu(15.19 d)	811.79(9.70), 88.9667(8.4), 1230.68(7.98)
903.64 12	0.201 15	¹⁰¹ Mo(14.61 m)	191.92(19), 590.91(16.4), 1012.47(12.8)
903.7 8	3.3 7	¹¹⁶ Cs(3.84 s)	393.5(<0.09), 524.3(76), 615.1(30.4)
903.7	0.041 23	¹⁹² Au(4.94 h)	316.50791(58.0), 295.95827(22.3), 2236.89(5.6)
903.76 9	0.61 3	¹⁴⁷ Pr(13.4 m)	77.9921(15), 314.675(13.2), 641.380(10.0)
903.8 10	†7	⁹⁹ Rb(59 ms)	90.8(†100), 125.2(†40), 1071.6(†26)
• 903.831 15	0.0422 22	¹⁴⁸ Pm(5.370 d)	1465.12(22), 550.284(22.00), 914.85(11.46)
• 903.831 15	0.370 8	¹⁴⁸ Eu(54.5 d)	550.284(98.5), 629.987(71.9), 611.293(20.5)
• 903.9	0.04	¹⁵³ Tb(2.34 d)	212.038(31.0), 170.504(6.8), 109.758(6.4)
904.0 3	†1.21 24	¹³¹ Ce(5.0 m)	230.43(†100), 436.85(†7.3), 462.9(†6.9)
• 904.076 6	0.898 5	¹⁵⁴ Eu(8.593 y)	123.071(40.79), 1274.436(35.19), 723.304(20.22)
904.1 4	0.036 9	¹²⁰ Xe(40 m)	25.1(30), 72.6(9), 178.1(6.8)
904.1 2	0.24 4	¹⁸³ Au(42.0 s)	161.18(9.4), 214.13(5.9), 313.08(5.0)
904.13	0.21	²⁰³ Bi(11.76 h)	820.3(30), 825.2(14.6), 896.9(13)
904.2 2	0.30 6	¹⁰¹ Zr(2.1 s)	119.3(10.8), 205.6(6.0), 912.2(3.48)
904.2 2	†54.8 22	²⁰¹ Po(15.3 m)	890.1(†100), 240.1(†71.0), 1186.7(†20.8)
904.20 5	0.78 3	²²⁸ Ac(6.15 h)	911.205(26.6), 968.971(16.2), 338.322(11.3)
904.20 5	3.00 25	²²⁸ Pa(22 h)	911.205(4.19), 463.005(1.250), 964.770(4.25)
904.23 10	†13.0 13	²⁰⁰ Au(18.7 h)	497.77(†123), 367.943(†123), 579.298(†121)
904.25 25	0.089 23	²¹⁴ Bi(19.9 m)	609.312(44.8), 1764.494(15.36), 1120.287(14.80)
904.27 7	7.2 4	⁸⁹ Kr(3.15 m)	220.948(20.1), 586.03(16.6), 1472.76(6.9)
904.29 10	3.0 3	¹²⁸ In(0.72 s)	831.54(100), 1168.80(100), 120.54(11.1)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
904.3 3	0.091 25	¹⁵² Pm(4.1 m)	121.7824(15.7), 841.586(2.17), 961.06(1.92)
• 904.306 55	0.0083 6	¹²⁹ Cs(32.06 h)	371.918(30.60), 411.490(22.31), 548.945(3.40)
904.34 25	0.28 3	¹⁶³ Yb(11.05 m)	860.28(10.1), 63.62(6.5), 123.21(1.98)
904.37 6	0.30 5	²⁰² Bi(1.72 h)	960.67(99), 422.18(83.7), 657.49(60.6)
904.37 15	0.340 21	²³⁴ Pa(6.70 h)	131.30(18), 946.00(13.4), 883.24(9.6)
• 904.37 15	6.5×10^{-8} 10	²³⁸ Pu(87.74 y)	43.498(0.0395), 99.853(0.00735), 152.720(0.000937)
904.4 5	0.013 4	¹³² I(2.295 h)	667.718(99), 772.60(75.6), 954.55(17.6)
904.4 9	0.029 17	¹⁶¹ Er(3.21 h)	826.6(3.0), 211.15(12.2), 592.6(3.7)
904.4 2	1.04 5	²²⁸ Fr(39 s)	473.7(10.2), 474.0(7.6), 410.40(6.3)
904.42 5	0.0571 22	²⁴⁶ Am(25.0 m)	1078.86(27.7), 798.80(25), 1062.04(17.1)
904.46 8	0.91 6	¹⁵⁰ Pm(2.68 h)	333.971(68), 1324.51(17.5), 1165.739(15.8)
904.5 2	21.0 18	¹¹⁰ Rh(28.5 s)	373.80(91), 546.90(42.4), 687.70(25.8)
904.5 2	6.2 9	¹³² Pm(6.3 s)	212.5(88), 397.2(23), 610.4(12.3)
904.6 2	0.381 15	¹⁰⁹ Ru(34.5 s)	206.29(22.0), 225.98(19.6), 1929.05(13.7)
904.6 7		¹³¹ Sn(56.0 s)	3267.5, 2470.5, 2039.25
904.6 7	†1.0 3	¹³¹ Sn(56.0 s)	1226.03(†100), 450.03(†90), 798.50(†86)
904.6 5	†0.104 21	¹⁹⁶ Ir(1.40 h)	393.346(†105.2), 521.175(†104), 447.1(†102.1)
904.7 2	0.10 3	¹⁵¹ Nd(12.44 m)	116.80(43.4), 255.68(16.4), 1180.89(14.8)
904.7 2	0.12 3	¹⁵¹ Nd(12.44 m)	116.80(43.4), 255.68(16.4), 1180.89(14.8)
904.8 3	0.078 17	¹⁵³ Dy(6.4 h)	80.723(11.10), 213.754(10.90), 99.659(10.51)
904.8 1	10.8 6	¹⁸⁸ Tl(71 s)	412.7(88), 592.0(61), 504.2(23.3)
904.95 18	0.016 3	¹⁶⁸ Ho(2.99 m)	741.356(36.6), 821.164(34.5), 815.990(18.6)
904.95 2	1.24 8	²⁰⁴ Po(3.53 h)	883.984(29.9), 270.068(27.8), 1016.31(24.1)
905.0 4	0.15 5	⁹⁷ Sr(426 ms)	1905.0(25), 953.8(21.4), 652.2(11.4)
905.03 23	0.37 6	¹⁸⁶ Au(10.7 m)	191.56(62), 298.67(25.4), 764.89(10.5)
905.1 2	†25 8	¹⁰⁸ Sb(7.0 s)	1206.4(†100)
905.1 2	†0.55 14	¹⁶⁰ Ho(5.02 h)	728.18(†100), 879.383(†65.9), 962.317(†59.1)
905.1 4	†0.34 3	¹⁸⁴ Ir(3.09 h)	263.97(†100), 119.80(†45), 390.38(†38)
905.2 3	0.35 5	¹⁰³ Tc(54.2 s)	346.380(17.5), 136.079(16.6), 562.90(7.0)
905.2 2	1.7 3	¹⁵⁴ Ho(3.10 m)	334.6(94), 412.4(79), 477.1(55)
905.2 2	2.19 20	¹⁵⁴ Ho(3.10 m)	334.6(84), 412.4(15.0), 873.4(12.5)
• 905.22 22	0.029 6	⁷² As(26.0 h)	834.01(80), 629.95(7.92), 1463.95(1.107)
905.3	3.5 11	³⁹ S(11.5 s)	1301.7(52), 1696.5(44), 394.8(37)
905.3 5	0.044 15	¹⁵¹ Nd(12.44 m)	116.80(43.4), 255.68(16.4), 1180.89(14.8)
905.3 6	0.40 6	¹⁷⁰ Ta(6.76 m)	100.8(21.0), 221.2(15.7), 860.4(7.39)
905.4 4	0.13 7	¹²¹ Cs(155 s)	153.9(15.2), 239.6(7.7), 427.1(3.63)
905.4 4	0.10 5	¹²¹ Cs(122 s)	179.4(30.2), 196.0(24.1), 459.7(12.0)
905.5 3	0.14 4	⁸⁸ Br(16.5 s)	775.28(63), 802.14(13.13), 1440.69(4.72)
• 905.5 3	7.5×10^{-9} 25	²³⁹ Pu(24110 y)	51.624(0.007100), 38.661(0.000500), 129.297(0.00631)
905.515 21	2.45 6	¹⁵⁵ Dy(9.9 h)	226.918(68.4), 184.564(3.37), 1089.8(>2.8)
905.53 26	0.66 5	⁹⁹ Nb(2.6 m)	97.785(7), 253.50(3.64), 2641.3(3.64)
905.6 3	0.066 14	⁹³ Rb(5.84 s)	432.61(17.4), 986.05(6.8), 213.429(6.7)
905.6 5	0.51 11	¹⁵¹ Tb(17.609 h)	287.357(28.3), 251.863(26.3), 108.088(24.3)
905.6 2	0.22 3	¹⁶³ Tm(1.810 h)	104.320(18.6), 69.229(11.6), 241.305(10.9)
905.6 6	†23	²³⁸ Pa(2.3 m)	1015.3(†<100), 1014.6(†<100), 635.18(†88)
905.7 3	0.26 3	¹¹⁸ I(13.7 m)	605.71(86.0), 545.12(10.9), 600.71(10.2)
905.7 2	0.070 17	¹⁷³ Ta(3.14 h)	172.2(18), 69.70(5.9), 90.3(5.0)
905.75 7	†76 8	¹⁶⁴ Tm(2.0 m)	91.40(†1500), 1154.66(†366), 768.91(†279)
905.75 16	1.31 14	¹⁹⁰ Re(3.2 h)	186.718(27.8), 605.24(14.9), 557.972(14.3)
905.78 5	11.4 10	¹²⁶ In(1.64 s)	1141.11(100), 908.58(99), 111.79(88)
905.8 3	0.008 4	¹⁰¹ Pd(8.47 h)	296.29(19), 590.44(12.06), 269.67(6.43)
905.81 20	0.0018 5	¹⁷³ Hf(23.6 h)	123.672(83), 296.974(33.9), 139.634(12.7)
905.81 14	†42 6	¹⁸¹ Pt(51 s)	289.29(†100), 111.97(†100), 230.15(†92)
905.87 2	1.61 5	¹³⁵ Ce(17.7 h)	265.56(41.8), 300.07(23.5), 606.76(18.8)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
• 905.89 9	0.45 3	¹⁵³ Tb(2.34 d)	212.038(31.0), 170.504(6.8), 109.758(6.4)
905.9 3	12.5 13	⁷⁰ As(52.6 m)	1039.20(81), 1114.1(21.8), 668.3(21.8)
905.9 8	2.4 5	¹¹⁶ Cs(3.84 s)	393.5(<0.09), 524.3(76), 615.1(30.4)
905.9 5	0.37 8	¹²⁶ Ba(100 m)	233.6(19.6), 257.6(7.6), 241.0(6.0)
905.9 5	0.54 11	¹⁵¹ Tb(17.609 h)	287.357(28.3), 251.863(26.3), 108.088(24.3)
• 905.9		¹⁸⁸ Ir(41.5 h)	155.032(29.7), 2214.62(18.7), 632.99(18)
• 905.99 6	0.0119 6	¹⁵⁴ Eu(8.593 y)	123.071(40.79), 1274.436(35.19), 723.304(20.22)
• 906.02 6	0.0150 13	¹⁵² Eu(13.542 y)	121.7824(28.4), 1408.011(20.87), 964.131(14.34)
906.1 4	0.18 6	¹⁵⁹ Tm(9.13 m)	38.35(5.8), 84.8(5.8), 271.30(5.1)
906.10 17	0.07 3	¹⁶⁵ Yb(9.9 m)	80.11(49), 68.86(9.1), 1090.28(4.4)
906.13 11	0.44 3	¹³³ Ce(4.9 h)	477.22(39), 510.36(20.7), 58.39(19.2)
906.2	20	⁹⁶ Y(9.6 s)	1750.42(89), 915.0(60), 617.1(56)
906.2 6	6.0 8	¹⁶⁶ Ta(34.4 s)	158.5(53), 311.8(28.2), 810.1(9.8)
906.2 3	†2.1 4	¹⁸³ Hg(9.4 s)	60.5(†100), 159.91(†21), 172.70(†17)
906.26 8	0.287 19	¹⁴⁶ La(6.27 s)	258.47(64), 924.58(7.45), 702.28(6.43)
906.36	0.054 7	³⁷ S(5.05 m)	3103.36(94), 3741.02(0.26), 3086.00(0.062)
906.4 9	0.13 6	¹⁰³ Cd(7.3 m)	1461.81(12), 1448.70(5.55), 1079.90(5.44)
906.4 7	0.19 5	¹⁰⁷ In(32.4 m)	204.97(47), 505.51(11.9), 320.92(10.2)
906.4 4	0.151 25	¹²¹ Xe(40.1 m)	252.7(13), 132.8(10.9), 445.2(7.7)
906.4 3	0.50 12	¹⁴² Eu(1.22 m)	768.1(100), 1023.3(92.0), 556.6(86.6)
• 906.425 6	0.2200 15	¹²⁹ Cs(32.06 h)	371.918(30.60), 411.490(22.31), 548.945(3.40)
906.46 5	1.52 10	¹⁵⁸ Eu(45.9 m)	944.09(25), 977.131(13.6), 79.5104(11)
906.49 17	0.88 11	¹⁵⁷ Pm(10.56 s)	160.61(35), 188.052(13.5), 571.27(5.39)
906.5 4	0.33 12	¹⁴⁹ Dy(4.20 m)	100.8(15.2), 789.4(11.8), 1776.3(11.1)
906.5 3	0.103 24	¹⁵³ Dy(6.4 h)	80.723(11.10), 213.754(10.90), 99.659(10.51)
906.6 3	†0.31 10	¹⁹⁴ Bi(92 s)	965.4(†100.0), 575.1(†98.0), 280.1(†73.7)
• 906.696 11	0.0443 16	⁷¹ As(65.28 h)	174.954(82.00), 1095.490(4.08), 499.876(3.624)
906.7 3	0.009 3	¹¹⁹ I(19.1 m)	257.52(87), 635.86(2.69), 320.53(2.17)
906.7 3	†1.6 2	¹²⁹ In(1.23 s)	315.3(†28), 1222.0(†2.5), 1288.5(†1.00)
906.7 1	†2.0 2	¹⁷¹ Ta(23.3 m)	49.6(†100), 506.4(†54), 501.8(†22.6)
906.7 2	0.20 3	¹⁸³ Ir(58 m)	392.52(10.4), 228.70(6.9), 87.67(5.6)
906.70	0.25	²⁰³ Bi(11.76 h)	820.3(30), 825.2(14.6), 896.9(13)
906.8 2	>0.0012	¹³⁶ La(9.87 m)	818.514(2.3), 760.50(0.289), 1322.76(0.264)
906.8	†6 1	¹⁵² Tm(8.0 s)	807.9(†100), 715.9(†13), 672.5(†9.5)
906.8	0.075 23	¹⁹² Au(4.94 h)	316.50791(58.0), 295.95827(22.3), 2236.89(5.6)
906.8 4	†48 13	²³⁴ Ac(44 s)	1847(†100), 1912(†91), 688.5(†87)
• 906.84 16	0.0028 5	¹³⁷ Ce(34.4 h)	824.82(0.44), 169.26(0.44), 762.3(0.192)
906.86 10	0.560 19	⁹⁸ Nb(51.3 m)	787.374(93), 722.645(73.8), 1168.830(17.8)
• 906.87 3	0.208 5	¹⁴⁸ Eu(54.5 d)	550.284(98.5), 629.987(71.9), 611.293(20.5)
906.9 1	0.39 6	⁹⁴ Sr(75.3 s)	1427.7(94), 723.8(2.40), 703.9(2.13)
906.9 3	0.61 6	⁹⁵ Rh(5.02 m)	941.6(72), 1352.0(20.8), 677.6(5.80)
906.96 6	2.11 25	¹⁴³ Gd(112 s)	271.94(84), 588.00(15.7), 798.89(10.7)
• 906.98 5	0.0613 16	⁵⁷ Ni(35.60 h)	1377.63(81.7), 127.164(16.7), 1919.52(12.26)
906.99 3	0.949 22	⁷⁷ Ge(11.30 h)	264.44(54), 211.03(30.8), 215.50(28.6)
907.0 8	†8.3 2	¹¹⁴ Te(15.2 m)	90.28(†100), 83.8(†67), 1417.6(†32)
907 10	5.0 7	¹⁶⁸ Ta(2.0 m)	124.0(35.6), 261.6(22.7), 751.4(7.3)
907.08 3	6.6 4	²⁰⁷ At(1.80 h)	814.41(44.5), 588.33(19.2), 300.654(12.8)
• 907.1 1	0.0013 4	¹⁴³ Ce(33.039 h)	293.266(42.80), 57.356(11.7), 664.571(5.69)
907.2 4	9.3 3	⁵¹ Sc(12.4 s)	1437.3(52), 2144.1(31.8), 1567.5(14.9)
907.2 4	0.041 14	¹⁴² Ba(10.6 m)	255.300(20.5), 1204.3(14.23), 895.2(13.9)
907.2 2	†57 6	¹⁷¹ Ho(53 s)	903.3(†100), 198.6(†88), 279.2(†60)
907.3 2	0.083 9	⁷⁹ Rb(22.9 m)	688.1(23), 182.77(19.2), 143.41(13.9)
907.3 5	0.59 9	¹⁴⁴ La(40.8 s)	397.440(94.3), 541.20(39.2), 844.8(22.3)
907.3 3	8	¹⁴⁹ Tm(0.9 s)	796.2(18), 158.8(12.3), 416.7(11)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
907.3 4	$\dagger 0.18$ 5	^{160}Ho (5.02 h)	728.18($\dagger 100$), 879.383($\dagger 65.9$), 962.317($\dagger 59.1$)
907.3 1	0.048 5	^{176}Ta (8.09 h)	1159.28(25), 88.34(12), 1224.93(6)
907.3 3	0.58 19	^{186}Ir (16.64 h)	296.911(64.0), 137.155(42), 434.849(34.4)
907.30 9	1.46 4	^{190}Au (42.8 m)	295.78(71.0), 301.82(23.4), 597.67(9.4)
907.4 2		^{66}Ga (9.49 h)	1039.30(37), 2752.01(23.38), 833.50(5.89)
• 907.5 4	0.0018 14	^{76}As (26.32 h)	559.101(45), 657.041(6.2), 1216.104(3.42)
907.5	$\dagger 6$	^{148}Cs (158 ms)	141.7($\dagger 100$), 687.2($\dagger 23$), 545.5($\dagger 20$)
907.56 11	5.7 3	^{201}Pb (9.33 h)	331.19(79), 361.27(9.9), 945.96(7.4)
907.6 2	1.32 20	^{95}Rb (377.5 ms)	352.02(49), 204.02(15.1), 680.7(14.8)
907.6 2	$\dagger 4.3$	^{96}Rb (0.199 s)	352.02($\dagger 700$), 204.02($\dagger 200$), 680.7($\dagger 121$)
907.6 3	0.15 3	^{156}Ho (56 m)	266.35(54.7), 137.83(51), 366.25(10.73)
907.64 10	0.53 6	^{105}Ru (4.44 h)	724.21(47), 469.37(17.5), 676.36(15.7)
• 907.67 10	0.303 12	^{83}Sr (32.41 h)	762.65(30), 381.53(14.1), 418.37(4.41)
907.69 7	0.0044 8	^{149}Nd (1.728 h)	211.309(25.9), 114.314(19.2), 270.166(10.7)
907.7 4	0.31 6	^{186}Au (10.7 m)	191.56(62), 298.67(25.4), 764.89(10.5)
907.73 15	1.0 3	^{181}Re (19.9 h)	365.57(56), 360.70(20), 639.30(6.4)
907.84 5	0.00013 7	^{128}I (24.99 m)	442.901(17), 526.557(1.58), 969.458(0.404)
907.86 20	0.066 10	^{87}Br (55.60 s)	1419.71(22.0), 1476.04(7.9), 1577.60(6.0)
907.89 6	0.036 22	^{66}Ge (2.26 h)	43.89(28.7), 381.85(28), 272.97(10.4)
907.9	$\dagger 6.4$	^{144}Gd (4.5 m)	333.3($\dagger 100$), 2432.6($\dagger 94.8$), 629.5($\dagger 32.4$)
907.9 3	0.635 13	^{171}Er (7.516 h)	308.31(64.4), 295.901(28.9), 111.621(20.5)
908.0 3	4.4 6	^{104}Ag (69.2 m)	555.796(92.6), 767.72(65.7), 941.7(25.0)
908.0 1	17.0 16	^{130}La (8.7 m)	357.4(81.0), 550.7(25.9), 544.5(16.2)
908.09 12	0.45 5	^{100}Y (735 ms)	212.531(73), 118.59(15.4), 665.98(7.7)
908.10 10	0.261 21	^{224}Fr (3.30 m)	215.985(33.1), 131.613(16.3), 836.90(9.8)
• 908.10 10	1.8×10^{-6}	^{228}Th (1.9131 y)	84.373(1.266), 215.985(0.263), 131.613(0.1355)
908.12 20	0.50	^{186}Ta (10.5 m)	197.93(50), 214.87(42.3), 510.82(37.5)
908.18 18	0.20 4	^{163}Tm (1.810 h)	104.320(18.6), 69.229(11.6), 241.305(10.9)
908.2 2	0.0147 9	^{223}Fr (21.8 m)	50.13(36.0), 79.72(9.1), 234.81(3.0)
• 908.2 2	$\dagger 0.131$ 19	^{227}Th (18.72 d)	235.971($\dagger 813$), 50.13($\dagger 528$), 256.25($\dagger 463$)
908.25 5	11.6 3	^{140}Cs (63.7 s)	602.345(71.1), 1200.25(6.39), 2330.50(4.99)
• 908.26 11	0.021 5	^{165}Tm (30.06 h)	242.917(35.5), 47.155(16.9), 297.369(12.71)
908.3 10	0.74 23	^{191}Hg (50.8 m)	252.5(57), 420.1(18.6), 578.6(17.6)
908.32 8	1 1	^{128}Sb (9.01 h)	753.82(100), 743.22(100), 314.12(61)
908.32 8	2.3 3	^{128}Sb (10.4 m)	753.82(96.4), 743.22(96), 314.12(89)
908.35 8	2.32 17	^{97}Rh (46.2 m)	189.21(49), 2245.6(14), 421.55(12.7)
908.39 8	1.85 9	^{202}Au (28.8 s)	439.59(10.0), 1125.20(2.30), 1306.38(2.25)
908.4 4	0.32 7	^{99}Ag (124 s)	264.41(65), 832.29(13.5), 805.07(12.5)
908.46 19	0.0207 7	^{73}Se (39.8 m)	67.03(2.59), 253.70(2.356), 84.0(2.03)
908.5 5	$\dagger 0.52$ 11	^{120}I (81.0 m)	560.44($\dagger 137$), 1523.0($\dagger 21.1$), 640.85($\dagger 17.1$)
908.5 10	0.40 24	^{181}Os (105 m)	238.75(44), 826.77(20), 118.03(12.9)
908.5 5	0.055 16	^{227}Fr (2.47 m)	90.035(39), 585.804(29.5), 64.267(14.5)
908.51 7	0.93 10	^{204}At (9.2 m)	684.341(95), 516.318(90), 426.253(67.5)
908.58 5	4.3 5	^{126}In (1.60 s)	1141.11(55.9), 3344.61(21.6), 969.61(14.9)
908.58 5	99 7	^{126}In (1.64 s)	1141.11(100), 111.79(88), 1636.50(29.6)
908.6 10	0.148 11	^{167}Lu (51.5 m)	29.66(14.4), 239.22(8.6), 213.19(3.6)
908.6 1	1.4 7	^{207}Rn (9.25 m)	344.53(46), 747.15(14.2), 402.68(11.9)
908.631 17	3.6 3	^{61}Co (1.650 h)	67.412(85), 841.211(0.79)
908.631 17	1.102 21	^{61}Cu (3.333 h)	282.956(12.2), 656.008(10.77), 67.412(4.23)
• 908.64 7	0.122 16	^{169}Lu (34.06 h)	960.622(23.4), 191.2137(20.6), 1449.74(9.92)
908.64 7	55	^{203}Po (36.7 m)	1090.95(19.2), 893.49(18.7), 214.78(14.3)
908.65 18	0.084 13	^{118}In (4.45 m)	1229.68(96), 1050.69(81.0), 683.08(54.3)
908.7 4	0.161 21	^{187}Au (8.4 m)	1331.81(7.0), 1408.23(3.06), 914.73(3.02)
908.78 12	$\dagger 108$	^{154}Nd (25.9 s)	151.703($\dagger 800$), 799.55($\dagger 600$), 180.693($\dagger 510$)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
908.8 2	$\dagger 25$ 2	^{153}Yb (4.2 s)	547.4($\dagger 100$), 674.1($\dagger 61$), 369.6($\dagger 32$)
908.8 3	$\dagger 4.0$ 20	^{155}Nd (8.9 s)	180.574($\dagger 100$), 418.99($\dagger 75$), 955.08($\dagger 50$)
908.8 2	$\dagger 0.44$ 10	^{158}Ho (11.3 m)	218.21($\dagger 100.0$), 98.91($\dagger 70$), 945.7($\dagger 37$)
908.8 4	0.05 3	^{185}Au (4.25 m)	310.6(13), 243.1(6.6), 77.7(6)
908.8 2	2.60 15	^{237}Am (73.0 m)	280.23(47.3), 438.4(8.3), 473.5(4.3)
908.8 2	0.218 20	^{238}Am (98 m)	962.77(28), 918.69(23.0), 561.11(10.9)
908.9 3	7.8 6	^{110}Sb (23.0 s)	1211.87(92), 985.03(31.2), 1243.6(13.4)
908.9 5	0.33 15	^{121}In (3.88 m)	60.34(20), 1041.1(1.12), 1100.7(0.92)
908.9 1	0.218 11	^{139}Xe (39.68 s)	218.59(56), 296.53(21.7), 174.97(11.3)
908.9	7.3 8	^{145}Tb (29.5 s)	257.8(39), 987.8(37), 537.0(23)
• 908.96 4	$\dagger 1.0 \times 10^6$	^{89}Sr (50.53 d)	
• 908.96 4	100	^{89}Zr (78.41 h)	1713.06(0.763), 1744.52(0.129), 1657.28(0.107)
909.0 4	0.040 7	^{97}Nb (72.1 m)	658.08(98), 1024.49(1.09), 1268.68(0.148)
909.0 4	0.088 10	^{123}Xe (2.08 h)	148.9(49), 178.1(14.9), 330.2(8.6)
909.00 8	0.09 3	^{210}At (8.1 h)	1181.39(99.3), 245.31(79), 1483.39(46.5)
909.03 3	2.71 9	^{81}Sr (22.3 m)	153.54(33.8), 147.76(30.1), 443.34(17.5)
909.05 24	2.2 4	^{78}Zn (1.47 s)	224.75(43.9), 181.68(28.1), 860.30(24.5)
909.09 6	0.122 6	^{24}Al (2.053 s)	1368.633(96.0), 7069.50(43.0), 2754.028(41.2)
909.10 8	1.36 15	^{125}Cd (0.57 s)	1027.53(25.8), 1173.16(25.1), 736.65(12.6)
909.1 2	$\dagger 2.9$ 3	^{152}Tb (17.5 h)	344.281($\dagger 1500$), 586.294($\dagger 223$), 271.135($\dagger 203$)
909.1 5	0.38	^{167}Dy (6.20 m)	569.7(48), 259.33(27.9), 310.26(25.0)
909.12 12	0.00133 25	^{123}I (13.27 h)	158.97(83), 528.96(1.39), 440.02(0.428)
909.2 2	2.02 9	^{60}Cu (23.7 m)	1332.501(88), 1791.6(45.4), 826.06(21.7)
909.2 4	0.22 4	^{100}Cd (49.1 s)	936.55(66), 139.71(6.7), 582.5(6.3)
909.23 5	24.0 17	^{141}Xe (1.73 s)	118.705(16.1), 105.937(9.8), 459.30(5.5)
909.27 8	0.0095 5	^{133}La (3.912 h)	278.835(2.50), 302.353(1.648), 290.06(1.413)
909.3	$\dagger 3.8$	^{107}Mo (3.5 s)	400.3($\dagger 100$), 65.7($\dagger > 92$), 384.4($\dagger 57.6$)
909.3	0.115 18	^{141}Ba (18.27 m)	190.328(46.0), 304.194(25.4), 276.948(23.4)
909.3 3	0.29 7	^{157}Sm (482 s)	197.870(56.00), 196.461(16.8), 394.351(11.93)
909.3 4	$\dagger 1.7$ 4	^{185}Pt (33.0 m)	229.60($\dagger 100$), 135.3($\dagger 80$), 197.4($\dagger 74$)
909.33 15	0.11	^{137}I (24.5 s)	1218.00(12.8), 601.05(4.80), 1302.64(4.42)
909.40 20	0.35 4	^{162}Tm (21.70 m)	102.00(17.5), 798.68(8.4), 227.52(7)
909.6 2	0.29 5	^{183}Au (42.0 s)	161.18(9.4), 214.13(5.9), 313.08(5.0)
909.63 4	1.28 3	^{98}Nb (51.3 m)	787.374(93), 722.645(73.8), 1168.830(17.8)
909.67 3	0.214 8	^{133}I (20.8 h)	529.872(87.0), 875.329(4.51), 1298.223(2.35)
• 909.68 15	0.034 9	^{188}Ir (41.5 h)	155.032(29.7), 2214.62(18.7), 632.99(18)
909.7 2	0.51 5	^{65}Ga (15.2 m)	115.09(54), 61.20(11.4), 153.0(8.9)
909.7 3	0.39 5	^{127}In (1.09 s)	1597.7(49), 646.1(6.2), 805.1(5.6)
909.7 3	0.93	^{154}Pm (2.68 m)	184.810(32), 81.99(15.4), 546.66(14.5)
• 909.70 6	0.65 5	^{172}Lu (6.70 d)	1093.657(62.5), 900.724(29.8), 181.528(20.6)
909.8 3	$\dagger 6.6$ 16	^{105}Nb (2.95 s)	94.8($\dagger 100$), 246.9($\dagger 79$), 309.9($\dagger 41.9$)
909.82 15	2.03 20	^{121}Cd (13.5 s)	324.976(49.5), 1040.26(16.8), 349.937(12.9)
• 909.847 18	0.0703 15	^{121}Te (154 d)	1102.149(2.54), 37.138(0.94), 998.291(0.0796)
910.0 3	0.200 16	^{85}Y (4.86 h)	231.67(22.8), 2123.8(5.0), 767.40(3.6)
910.0 5	0.12 4	^{126}Ba (100 m)	233.6(19.6), 257.6(7.6), 241.0(6.0)
• 910.00 3	4.30 10	^{131}Te (30 h)	773.67(49.9), 852.21(27.0), 793.75(18.10)
910.0 7	0.12 6	^{133}Te (12.5 m)	312.072(62), 407.63(27.1), 1333.21(10.67)
910.0 1	0.27 6	^{142}Gd (70.2 s)	750.2(11.2), 178.90(11.20), 284.4(6.16)
910 1	0.32 11	^{164}Tb (3.0 m)	168.838(25.4), 754.80(23.3), 215.07(21)
910	0.029 17	^{192}Au (4.94 h)	316.50791(58.0), 295.95827(22.3), 2236.89(5.6)
910 30	3.0 20	^{210}Tl (1.30 m)	799.7(99), 298(79), 1316(21)
910 1	0.00081 18	^{223}Fr (21.8 m)	50.13(36.0), 79.72(9.1), 234.81(3.0)
• 910 1	$\dagger 0.0010$ 4	^{227}Th (18.72 d)	235.971($\dagger 813$), 50.13($\dagger 528$), 256.25($\dagger 463$)
910 1	$\dagger 2.6$ 4	^{244}Bk (4.35 h)	891.5($\dagger 100$), 217.6($\dagger 88$), 921.5($\dagger 19$)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
910.1 4	0.081 9	¹²⁰ Xe(40 m)	25.1(30), 72.6(9), 178.1(6.8)
910.1 3	0.44 8	¹²¹ Cs(122 s)	179.4(30.2), 196.0(24.1), 459.7(12.0)
910.1 2	0.93 3	¹³² I(2.295 h)	667.718(99), 772.60(75.6), 954.55(17.6)
910.1 3	7.6 4	¹³⁹ Nd(5.50 h)	113.94(40), 737.96(35), 982.2(26.4)
910.1 2	1.8 3	¹³⁹ Sm(2.57 m)	273.7(37), 306.7(28.5), 596.3(8.0)
910.1 3	0.164 5	²³⁵ Pu(25.3 m)	49.10(2.36), 756.4(0.479), 34.23(0.23)
910.1 1	0.140 20	²⁴⁰ Np(7.22 m)	554.60(20.9), 597.40(11.7), 1496.9(1.33)
910.12 10	0.184 15	⁷⁹ Ga(2.847 s)	464.79(24.2), 516.41(21.5), 1187.28(12.8)
910.18 8	0.81 5	⁹³ Sr(7.423 m)	590.238(67), 875.73(24.1), 888.13(21.8)
910.2 1	0.581 23	⁷⁷ Rb(3.75 m)	66.52(57), 178.99(22.2), 393.37(9.7)
910.2 1	3.24 12	⁹² Ru(3.65 m)	213.81(96), 259.32(92), 134.57(65.5)
910.27 8	7.8 6	⁷¹ Zn(2.45 m)	511.56(32), 389.88(3.8), 121.51(3.0)
910.27 8	0.31 3	⁷¹ Zn(3.96 h)	386.28(93), 487.38(62), 620.18(57)
910.3 5	0.42 4	¹⁵¹ Dy(17.9 m)	386.10(19.4), 49.46(18.0), 546.31(14.3)
910.3 5	0.23 7	¹⁵⁹ Er(36 m)	624.5(33), 649.1(23.4), 205.92(9.7)
910.35 5	0.00023 6	¹³⁵ La(19.5 h)	480.51(1.5), 874.51(0.164), 587.83(0.1108)
• 910.4 2	0.56 3	¹⁴⁷ Gd(38.06 h)	229.32(63), 396.00(34.3), 929.01(20.2)
910.4 4	0.94 13	¹⁵³ Ho(2.0 m)	295.8(67), 637.0(5.36), 688.5(3.7)
910.4 10	0.0028	¹⁵⁷ Dy(8.14 h)	326.16(92), 182.20(1.84), 83.01(0.62)
910.46 20	1.39 14	²⁴⁵ Pu(10.5 h)	327.428(25.4), 560.13(5.4), 308.222(4.9)
• 910.47 11	0.068 4	¹⁴⁵ Eu(5.93 d)	893.73(66), 653.512(15.0), 1658.53(14.9)
910.5 9	0.034	⁴³ Ar(5.37 m)	975.0(34), 738.1(15), 1439.5(13)
910.5 4	1.91 8	⁷³ Zn(23.5 s)	218.1(6.00), 495.6(1.48), 1612.9(0.92)
910.6 3	0.26 7	¹⁵⁷ Er(18.65 m)	53.05(24), 391.32(14.2), 121.57(10.1)
910.63 15	0.063 12	¹⁹⁵ Hg(9.9 h)	779.80(7), 61.46(6.2), 585.13(1.99)
910.7 8	0.05 3	⁷⁶ Br(16.2 h)	559.101(74), 657.041(15.9), 1853.67(14.7)
910.7 4	†1.7 3	¹⁸⁹ Hg(7.6 m)	320.99(†100), 78.21(†63), 565.42(†48)
910.7 5	0.07 1	²⁰⁹ At(5.41 h)	545.0(91), 781.9(83.5), 790.2(63.5)
• 910.8 10	0.043	⁹⁹ Rh(16.1 d)	528.24(33), 353.05(30.0), 89.65(29.0)
910.8 5	0.06 3	¹⁰¹ Ag(11.1 m)	261.0(53), 588.0(10.0), 667.3(9.8)
• 910.8 3	0.0412 22	¹⁷⁰ Lu(2.00 d)	84.2551(4.256), 1280.25(3.450), 2041.88(1.434)
910.87 10	0.40 4	¹⁵⁸ Tm(3.98 m)	192.13(62), 335.10(16.8), 1149.83(7.6)
• 910.87 3	0.087 3	²⁰⁵ Bi(15.31 d)	1764.36(1.368), 703.44(31), 987.62(0.585)
910.88 4	0.068 14	¹⁵⁰ Pm(2.68 h)	333.971(68), 1324.51(17.5), 1165.739(15.8)
• 910.88 4	0.086 10	¹⁵⁰ Eu(35.8 y)	333.971(96), 439.401(80.4), 584.274(52.6)
910.9 3	0.28 7	⁹⁹ Pd(21.4 m)	136.00(73), 263.60(15.2), 673.38(6.9)
910.9 2	0.16 3	²²⁶ Fr(48 s)	253.73(22.3), 186.05(16.3), 253.9(2.5)
910.91 14	0.143 16	⁹³ Rb(5.84 s)	432.61(17.4), 986.05(6.8), 213.429(6.7)
910.92 2	3.1 3	⁶⁷ Ge(18.9 m)	167.01(84), 1472.48(4.9), 914.68(3.0)
910.93 6	3.1	¹⁵⁴ Pm(1.73 m)	2057.76(17.1), 1393.9(14.4), 81.99(12.6)
910.93 6	0.31	¹⁵⁴ Pm(2.68 m)	184.810(32), 81.99(15.4), 546.66(14.5)
911.0 10	0.12 3	⁷⁶ Kr(14.8 h)	315.7(39), 270.2(21.1), 45.48(19.5)
911.0 5	0.70 8	¹³¹ Sb(23.03 m)	943.4(47), 933.1(26.1), 642.30(23)
911.0	†3.0	¹³⁸ Eu(12.1 s)	346.6(†100), 544.2(†55), 685.4(†41)
911	0.00093 19	¹⁵⁵ Sm(22.3 m)	104.3346(74.6), 245.771(3.7), 141.4428(1.98)
911.0 1	0.215 11	¹⁹⁴ Pb(12.0 m)	581.82(18.8), 1519.45(16.4), 203.82(16.2)
911.0 7	1.90 17	²⁰¹ Bi(108 m)	629.1(24.0), 936.2(11.3), 1014.1(10.7)
911.1 2	0.15	⁴⁴ Ar(11.87 m)	182.6(66), 1703.4(57), 1886.0(31)
911.1 5	0.19 4	¹²¹ Xe(40.1 m)	252.7(13), 132.8(10.9), 445.2(7.7)
911.1 5	†0.30 8	¹²⁹ Ba(2.17 h)	182.30(†100), 1459.1(†50.0), 202.38(†33.7)
911.1	†19	²³⁸ Pa(2.3 m)	1015.3(†<100), 1014.6(†<100), 635.18(†88)
911.2 4	1.7 3	⁶⁹ Se(27.4 s)	97.98(66), 66.4(24.8), 691.8(16.6)
911.2 2	0.18 6	¹⁰¹ Zr(2.1 s)	119.3(10.8), 205.6(6.0), 912.2(3.48)
911.2 4	3.6 5	¹¹⁶ Cs(3.84 s)	393.5(<0.09), 524.3(76), 615.1(30.4)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
911.205 4	26.6 7	²²⁸ Ac(6.15 h)	968.971(16.2), 338.322(11.3), 964.770(5.11)
911.205 4	4.19 7	²²⁸ Pa(22 h)	463.005(1.250), 964.770(4.25), 968.971(3.88)
• 911.25 15	0.0257 25	¹⁵¹ Pm(28.40 h)	340.08(23), 167.75(8.3), 275.21(6.8)
911.3 5	†4.9 12	¹³¹ Ce(10.3 m)	169.42(†100), 414.25(†68), 119.18(†44)
911.3 3	9.21 24	¹⁴¹ Sm(22.6 m)	196.88(74), 431.6(40.4), 777.6(20.3)
911.3	0.016	¹⁴⁹ Nd(1.728 h)	211.309(25.9), 114.314(19.2), 270.166(10.7)
911.40 10	1.00 7	⁷⁶ Ga(32.6 s)	562.93(66), 545.51(26.0), 1108.41(15.8)
911.4 1	0.20 7	⁹⁹ Ag(124 s)	264.41(65), 832.29(13.5), 805.07(12.5)
911.4 4	0.58 12	¹⁰⁵ In(5.07 m)	131.37(41), 260.21(15.7), 604.11(9.2)
• 911.4 1	0.0116 10	²³² Pa(1.31 d)	969.315(41.6), 894.351(19.8), 150.059(10.8)
911.49 6	0.046 6	¹³³ I(20.8 h)	529.872(87.0), 875.329(4.51), 1298.223(2.35)
911.53 12	0.00188 20	¹⁶¹ Gd(3.66 m)	360.94(0.59), 314.92(22.7), 102.315(13.9)
911.57 12	0.09 3	¹⁰¹ Tc(14.22 m)	306.85(88), 545.06(6.0), 127.23(2.86)
• 911.58 3	0.0025 5	⁷⁷ Br(57.036 h)	238.996(23), 520.639(22.4), 297.215(4.16)
911.6 3	0.33 3	¹¹⁸ I(13.7 m)	605.71(86.0), 545.12(10.9), 600.71(10.2)
911.647 13	0.0970 12	¹³³ La(3.912 h)	278.835(2.50), 302.353(1.648), 290.06(1.413)
911.7 4	0.028 5	⁷⁹ Rb(22.9 m)	688.1(23), 182.77(19.2), 143.41(13.9)
911.70 21	0.068 17	¹⁰³ Ag(65.7 m)	118.72(31.2), 148.193(28.3), 266.86(13.3)
911.7 5	0.09 3	¹⁹⁸ Tl(5.3 h)	411.8044(82), 675.8874(11), 636.4(10.1)
911.70	0.22	²⁰³ Bi(11.76 h)	820.3(30), 825.2(14.6), 896.9(13)
• 911.7 3	1.4×10 ⁻⁸ 4	²³⁹ Pu(24110 y)	51.624(0.007100), 38.661(0.000500), 129.297(0.00631)
911.78 7	13.5 16	²⁰⁴ Bi(11.22 h)	899.15(98), 374.72(82), 984.02(59)
911.79 9	16.95 24	²⁰⁷ Po(5.80 h)	992.33(59.3), 742.64(28.2), 405.75(9.7)
911.8 4	0.021 6	¹⁰¹ Pd(8.47 h)	296.29(19), 590.44(12.06), 269.67(6.43)
911.80 15	0.37 6	¹⁹⁹ Pb(90 m)	366.90(44.2), 353.39(9.5), 1135.04(7.8)
• 911.89 17	0.060 5	⁷² As(26.0 h)	834.01(80), 629.95(7.92), 1463.95(1.107)
911.9 2	0.114 21	¹⁸³ Ir(58 m)	392.52(10.4), 228.70(6.9), 87.67(5.6)
911.9 1	0.059 7	²¹⁰ Rn(2.4 h)	458.25(1.7), 648.70(0.843), 570.95(0.840)
911.9 4		²³⁸ Pa(2.3 m)	1015.3(†<100), 1014.6(†<100), 635.18(†88)
911.91 8	0.153 6	¹⁴⁵ Ce(3.01 m)	724.33(59), 62.54(13.33), 1148.03(9.15)
911.953 14	1.01 11	⁷⁵ Br(96.7 m)	286.572(88), 141.3147(6.6), 427.883(4.4)
912.0 10	0.93 20	⁷⁷ Zn(2.08 s)	189.49(28.1), 473.94(19.7), 1832.0(12.4)
912.0 3	0.08 3	⁸⁸ Br(16.5 s)	775.28(63), 802.14(13.13), 1440.69(4.72)
912.0 1	1.55 5	¹⁰⁷ Ru(3.75 m)	194.05(9.9), 847.93(5.3), 462.61(3.66)
912.0 4	0.083 10	¹²³ Xe(2.08 h)	148.9(49), 178.1(14.9), 330.2(8.6)
• 912.0 5	0.0068 19	¹²⁵ Sn(9.64 d)	1067.10(10), 1089.15(4.59), 822.48(4.28)
912.02 20	†20.3 10	¹⁸² Ir(15 m)	273.23(†100), 126.79(†77), 236.3(†21.0)
• 912.125 25	1.42 4	¹⁷² Tm(63.6 h)	78.7435(6.5), 1093.657(6.0), 1387.093(5.6)
• 912.125 25	15.25 25	¹⁷² Lu(6.70 d)	1093.657(62.5), 900.724(29.8), 181.528(20.6)
912.2 5	0.25 2	⁹⁶ Rh(9.90 m)	832.57(100), 685.49(95.7), 631.71(74.5)
912.2 2	3.48 24	¹⁰¹ Zr(2.1 s)	119.3(10.8), 205.6(6.0), 2009.5(3.4)
912.2 2	†3.4 10	¹³² Pr(1.6 m)	325.5(†100), 496.9(†25), 822.4(†17.3)
912.2 5	0.16 4	¹⁶¹ Tm(33 m)	45.54(5.00), 1648.1(9.50), 84.40(9.4)
912.2 3	0.092 14	¹⁹⁰ Au(42.8 m)	295.78(71.0), 301.82(23.4), 597.67(9.4)
912.22 5	11.1 16	²⁰⁴ Bi(11.22 h)	899.15(98), 374.72(82), 984.02(59)
912.25 6	0.041 8	¹⁸⁹ Pt(10.87 h)	721.41(9.3), 94.33(7.6), 568.84(7.1)
912.3 6	0.062 19	¹³³ Te(12.5 m)	312.072(62), 407.63(27.1), 1333.21(10.67)
912.3 4	†0.18 5	¹⁶⁰ Ho(5.02 h)	728.18(†100), 879.383(†65.9), 962.317(†59.1)
912.4 4	0.12 4	¹²⁷ Sn(2.10 h)	1114.3(39), 1095.6(20), 823.1(10.9)
912.4 4	0.104 7	¹³⁵ Te(19.0 s)	603.5(37.0), 266.8(10.36), 870.3(7.73)
• 912.4 3	0.021 6	¹⁵³ Tb(2.34 d)	212.038(31.0), 170.504(6.8), 109.758(6.4)
• 912.4	†2.5×10 ³ 5	²⁴¹ Am(432.2 y)	59.537(†60), 26.345(†1000×10 ⁹), 33.195(†6000×10 ⁸)
912.47 6	0.219 21	¹⁵⁵ Dy(9.9 h)	226.918(68.4), 184.564(3.37), 1089.8(>2.8)
912.5 6	0.0046 23	⁸¹ Rb(4.576 h)	190.38(64.0), 446.15(23.2), 510.31(5.3)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
912.50 14	0.055 11	¹³² La(4.8 h)	464.55(76), 567.14(15.7), 1909.91(9.0)
912.5 2	0.12 3	¹⁵¹ Nd(12.44 m)	116.80(43.4), 255.68(16.4), 1180.89(14.8)
912.5 4	0.102 20	¹⁵⁶ Ho(56 m)	266.35(54.7), 137.83(51), 366.25(10.73)
912.51 7	0.328 19	¹³⁸ Xe(14.08 m)	258.411(31.5), 434.562(20.3), 1768.26(16.7)
912.6 4	42 5	¹⁰⁴ Sn(20.8 s)	132.7(56), 401.2(16.2), 1407.3(15.1)
• 912.60 5	6.25 8	¹¹⁹ Te(4.70 d)	153.59(66), 1212.73(66), 270.53(28.0)
912.6 5	†8 2	¹³⁰ Sn(1.7 m)	144.9(†100), 899.2(†49), 84.7(†42)
912.6 5	0.077 5	¹⁷¹ Er(7.516 h)	308.31(64.4), 295.901(28.9), 111.621(20.5)
912.6 3	†0.95 24	¹⁸⁹ Hg(7.6 m)	320.99(†100), 78.21(†63), 565.42(†48)
912.671 4	0.06 4	¹³³ Te(12.5 m)	312.072(62), 407.63(27.1), 1333.21(10.67)
912.671 4	55.28 17	¹³³ Te(55.4 m)	647.51(19.4), 863.955(15.6), 914.774(10.94)
912.7 7	0.07 5	¹⁰³ Cd(7.3 m)	1461.81(12), 1448.70(5.55), 1079.90(5.44)
912.7 3	1.8 3	¹⁸⁷ Pt(2.35 h)	106.46(9), 201.52(6.4), 110.04(5.7)
912.73 9	0.63 6	⁹² Y(3.54 h)	934.46(13.9), 1405.28(4.8), 561.03(2.40)
• 912.73 9	1.78 10	⁹² Nb(10.15 d)	934.46(99), 1847.27(0.85), 1132.24(0.005)
912.74 17	1.55 11	¹⁹⁵ Pb(15.0 m)	383.64(106.9), 394.21(44), 878.40(24.2)
912.8 4	0.071 24	⁹¹ Rb(58.4 s)	93.628(33.7), 2564.19(12.5), 3599.67(10.4)
912.8 4	0.037 19	⁹⁸ Nb(51.3 m)	787.374(93), 722.645(73.8), 1168.830(17.8)
912.8 2	0.88 8	¹⁴⁰ Xe(13.60 s)	805.52(20), 1413.66(12.2), 1315.05(8.2)
912.8 3	0.86 13	¹⁴⁹ Dy(4.20 m)	100.8(15.2), 789.4(11.8), 1776.3(11.1)
912.9 2	0.58 5	¹⁰¹ Ag(11.1 m)	261.0(53), 588.0(10.0), 667.3(9.8)
912.9 5	†4.0 12	¹³¹ Ce(10.3 m)	169.42(†100), 414.25(†68), 119.18(†44)
912.95 4	4.79 18	¹⁸⁷ Ir(10.5 h)	427.12(4.12), 400.89(3.94), 610.68(3.93)
913.0 7	0.034 11	¹⁷⁷ Yb(1.911 h)	150.392(20.3), 1080.21(5.6), 1241.2(3.47)
913 3	0.12 4	¹⁸⁵ Ta(49.4 m)	177.59(25.7), 173.68(22.6), 65.86(3.9)
913.06 15	1.08 23	¹⁹³ Hg(11.8 h)	257.97(61), 407.63(25), 573.25(14.2)
913.1 5	0.023 6	¹⁵¹ Tb(17.609 h)	287.357(28.3), 251.863(26.3), 108.088(24.3)
913.119 20	0.268 5	¹⁵⁹ Ho(33.05 m)	121.012(36.2), 131.973(23.6), 309.594(17.2)
913.2 1	†13.6 4	⁹⁵ Pd(13.3 s)	1350.9(†105), 716.6(†70.63), 381.8(†50.8)
913.2 2	5.0 10	¹²⁹ Sn(2.23 m)	645.13(100), 80.5(6.6), 66.4(5.0)
913.2 3	0.53 8	¹⁴⁹ Dy(4.20 m)	100.8(15.2), 789.4(11.8), 1776.3(11.1)
913.2 10	†2.5	¹⁷⁷ Os(2.8 m)	84.7(†100), 125.4(†63), 195.8(†61)
913.2 1	0.26 9	¹⁸⁸ Tl(71 s)	412.7(88), 592.0(61), 504.2(23.3)
913.3 2	0.73 6	¹⁴³ Gd(39 s)	258.81(75), 204.77(19.4), 463.7(9.9)
913.3 9	0.022 22	¹⁶¹ Er(3.21 h)	826.6(3.0), 211.15(12.2), 592.6(3.7)
913.31 9	0.134 8	⁸⁵ Br(2.90 m)	802.41(2.56), 924.63(1.63), 919.06(0.65)
913.38 20	0.26 3	⁹⁰ Br(1.92 s)	707.05(38.0), 1362.32(11.2), 655.17(7.7)
913.4 3	0.48	¹¹⁷ Ag(5.34 s)	135.4(48), 386.8(39.9), 298.1(21.1)
913.4 3	0.51 11	¹¹⁷ Ag(72.8 s)	135.4(23), 337.7(10.3), 157.1(7.9)
913.4 5	0.101 25	¹²¹ Xe(40.1 m)	252.7(13), 132.8(10.9), 445.2(7.7)
913.4 5	0.58 22	¹⁴¹ Xe(1.73 s)	909.23(24.0), 118.705(16.1), 105.937(9.8)
913.41 15	2.0 4	¹²³ Cd(2.10 s)	371.32(51), 1052.28(24.8), 1438.13(8.3)
913.45 14	2.2 3	¹⁹⁷ Pb(8 m)	385.85(50), 761.14(13.3), 375.48(12.8)
913.5 5	0.45 8	¹²⁶ Ba(100 m)	233.6(19.6), 257.6(7.6), 241.0(6.0)
913.5	0.135 18	²⁰⁵ At(26.2 m)	719.30(31), 669.41(8.6), 628.88(5.6)
913.6 5	0.53 6	⁶³ Co(27.4 s)	87.13(48.7), 981.7(2.11), 155.6(1.60)
913.6 5	0.14 3	¹⁵¹ Tb(17.609 h)	287.357(28.3), 251.863(26.3), 108.088(24.3)
913.6 3	0.00045 6	²²³ Fr(21.8 m)	50.13(36.0), 79.72(9.1), 234.81(3.0)
913.65 25	0.105 21	¹⁸⁷ Au(8.4 m)	1331.81(7.0), 1408.23(3.06), 914.73(3.02)
913.7 6	0.101 20	¹⁶³ Yb(11.05 m)	860.28(10.1), 63.62(6.5), 123.21(1.98)
913.7 2	0.088 12	¹⁸³ Au(42.0 s)	161.18(9.4), 214.13(5.9), 313.08(5.0)
913.7 2	0.098 25	²³⁰ Ac(122 s)	454.95(8), 508.20(5.15), 1243.9(3.50)
913.72 9	0.19 9	¹⁰⁰ Nb(1.5 s)	535.60(45.7), 528.24(9.1), 159.547(8.8)
• 913.79 9	0.061 14	⁶⁹ Ge(39.05 h)	1107.01(36), 574.17(13.3), 872.14(11.9)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
913.8 5	0.0028 14	¹⁵¹ Tb(17.609 h)	287.357(28.3), 251.863(26.3), 108.088(24.3)
913.81 3	0.365 8	⁷⁷ Ge(11.30 h)	264.44(54), 211.03(30.8), 215.50(28.6)
913.85 9	1.1 2	⁵⁹ Zn(182.0 ms)	491.13(4.8), 422.6(<0.2)
913.9 4		⁶⁶ Ga(9.49 h)	1039.30(37), 2752.01(23.38), 833.50(5.89)
913.9	0.7	¹⁸⁵ Ir(14.4 h)	254.4(13.3), 1828.8(10), 60.0(5.7)
913.91 10	0.014 5	¹⁸⁹ Pt(10.87 h)	721.41(9.3), 94.33(7.6), 568.84(7.1)
913.93 11	9.0 5	⁸⁵ Y(2.68 h)	231.67(84), 504.45(60), 409.5(0.84)
914.0 5	0.011 3	¹⁵¹ Tb(17.609 h)	287.357(28.3), 251.863(26.3), 108.088(24.3)
914.0 2	0.28 7	¹⁷³ Ta(3.14 h)	172.2(18), 69.70(5.9), 90.3(5.0)
914.0 4	0.11 6	¹⁸⁵ Au(4.25 m)	310.6(13), 243.1(6.6), 77.7(6)
• 914.07 2	0.0463 9	¹³¹ Ba(11.50 d)	496.326(47), 123.805(28.97), 216.078(19.66)
914.1 2	0.36 6	¹⁰¹ Zr(2.1 s)	119.3(10.8), 205.6(6.0), 912.2(3.48)
914.1 2	3.5 2	¹³⁶ I(46.9 s)	1313.02(100), 381.359(100), 197.316(78)
914.1 5	1.51 8	¹⁹⁹ Bi(27 m)	560.1(22.0), 424.85(22), 841.7(11)
914.15 7	0.296 10	²¹⁰ Rn(2.4 h)	458.25(1.7), 648.70(0.843), 570.95(0.840)
914.2 3	†0.23 5	¹⁶⁰ Ho(5.02 h)	728.18(†100), 879.383(†65.9), 962.317(†59.1)
914.28 4	1.02 9	¹⁵¹ Nd(12.44 m)	116.80(43.4), 255.68(16.4), 1180.89(14.8)
914.3 1	5.14 19	⁷³ Br(3.4 m)	64.9(37.0), 336.0(10.4), 699.8(9.1)
914.3 3	0.33 7	¹²¹ Cs(155 s)	153.9(15.2), 239.6(7.7), 427.1(3.63)
914.3 3	0.26 5	¹²¹ Cs(122 s)	179.4(30.2), 196.0(24.1), 459.7(12.0)
• 914.4 2	0.583 21	¹⁴⁶ Eu(4.59 d)	747.2(98), 633.03(43), 634.07(37)
914.47 5	4.13 16	⁸⁰ Ga(1.697 s)	659.14(78.0), 1083.47(48.4), 1109.36(18.6)
914.47 5	>0.15	⁸¹ Ga(1.222 s)	659.14(5), 1573.57(>0.15)
914.5 10	0.13 4	⁸⁵ Y(4.86 h)	231.67(22.8), 2123.8(5.0), 767.40(3.6)
914.5 4	3.8 16	¹⁰⁵ Tc(7.6 m)	143.26(16), 107.945(14.1), 321.50(11.1)
914.5 2	†7.0 21	¹⁵⁵ Nd(8.9 s)	180.574(†100), 418.99(†75), 955.08(†50)
914.6 5	20.0 11	¹²⁹ Sb(4.40 h)	812.8(43), 544.7(17.9), 1030.1(12.6)
914.6 3	†0.31 5	¹⁹⁶ Ir(1.40 h)	393.346(†105.2), 521.175(†104), 447.1(†102.1)
914.68 4	3.0 3	⁶⁷ Ge(18.9 m)	167.01(84), 1472.48(4.9), 910.92(3.1)
914.7 5	†0.8 3	¹⁵² Tb(17.5 h)	344.281(†1500), 586.294(†223), 271.135(†203)
• 914.7 6	0.015 6	¹⁵³ Tb(2.34 d)	212.038(31.0), 170.504(6.8), 109.758(6.4)
914.7 1	1.16 7	²⁰⁰ Po(11.5 m)	671.0(34.0), 617.7(19.7), 434.4(9.3)
914.73 13	3.02 12	¹⁸⁷ Au(8.4 m)	1331.81(7.0), 1408.23(3.06), 1266.50(2.41)
914.774 12	0.69 6	¹³³ Te(12.5 m)	312.072(62), 407.63(27.1), 1333.21(10.67)
914.774 12	10.94 22	¹³³ Te(55.4 m)	912.671(55.28), 647.51(19.4), 863.955(15.6)
• 914.8 5	0.007 3	⁷⁹ Kr(35.04 h)	261.29(13), 397.54(9.3), 606.09(8.12)
914.8 5	0.075 8	¹⁰¹ Pd(8.47 h)	296.29(19), 590.44(12.06), 269.67(6.43)
914.8 2	4.0 4	¹²⁴ Cs(30.8 s)	353.9(40), 492.6(3.6), 846.9(1.19)
914.8 3	0.13 3	¹³³ Ce(4.9 h)	477.22(39), 510.36(20.7), 58.39(19.2)
914.81 5	78.1 17	⁸⁶ Nb(88 s)	751.74(97.8), 1003.24(37.4), 670.01(14.9)
• 914.85 3	11.46 9	¹⁴⁸ Pm(5.370 d)	1465.12(22), 550.284(22.00), 611.293(1.021)
914.9 3	0.42 6	¹¹⁸ Cs(14 s)	337.4(100), 472.8(37.4), 586.6(15.4)
914.9 4	1.8 4	¹³⁰ Sb(39.5 m)	793.53(100), 839.49(100), 331.05(78)
914.9 7	†5.0 9	¹⁹¹ Tl(5.22 m)	452.6(†100), 470.1(†98), 391.6(†96)
914.944 6	0.91 4	¹⁶⁸ Ho(2.99 m)	741.356(36.6), 821.164(34.5), 815.990(18.6)
• 914.944 6	2.997 16	¹⁶⁸ Tm(93.1 d)	198.241(52.39), 815.990(48.99), 447.515(23.05)
914.97 19	†5.8 13	¹⁸³ Hg(9.4 s)	60.5(†100), 159.91(†21), 172.70(†17)
915.0	60	⁹⁶ Y(9.6 s)	1750.42(89), 617.1(56), 1106.88(49)
915.0 3	†2.8 4	¹⁰⁴ Nb(0.92 s)	192.2(†100), 368.4(†20), 620.2(†19.2)
915.0 4	1.4 4	¹¹³ Te(1.7 m)	814.4(22), 1018.1(13.0), 1181.0(12.3)
915.0 3	3.5 3	¹²⁸ La(5.0 m)	284.00(87), 479.24(54), 643.65(14.7)
• 915.0 1	0.031 3	²⁰⁶ Bi(6.243 d)	803.10(99), 881.01(66.2), 516.18(40.7)
915.04 19	0.102 20	⁸¹ As(33.3 s)	467.72(20), 491.20(8.5), 521.10(1.40)
915.10 12	1.12 6	¹⁰⁷ In(32.4 m)	204.97(47), 505.51(11.9), 320.92(10.2)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
915.1 2	0.083 19	¹⁴⁶ La(6.27 s)	258.47(64), 924.58(7.45), 702.28(6.43)
915.2 2	1.03 6	⁹⁶ Rh(9.90 m)	832.57(100), 685.49(95.7), 631.71(74.5)
915.2 3	0.149 20	²⁰² Bi(1.72 h)	960.67(99), 422.18(83.7), 657.49(60.6)
• 915.28 12	0.016 7	¹⁵⁰ Eu(35.8 y)	333.971(96), 439.401(80.4), 584.274(52.6)
915.30 12	†0.43 5	¹⁴⁸ Tb(60 m)	784.430(†119.0), 489.049(†28.0), 1079.025(†16.2)
915.3	7.8 11	¹⁷⁹ Pt(21.2 s)	171.7(16), 193.1(14.2), 99.8(13.2)
• 915.331 8	17.10 18	¹⁴⁸ Pm(41.29 d)	550.284(94.5), 629.987(89), 725.673(32.7)
• 915.331 8	2.60 6	¹⁴⁸ Eu(54.5 d)	550.284(98.5), 629.987(71.9), 611.293(20.5)
915.35 20	2.7 3	¹²⁴ In(2.4 s)	1131.64(100), 969.94(52), 1072.85(47)
915.35 9	0.0021 10	¹⁴⁹ Nd(1.728 h)	211.309(25.9), 114.314(19.2), 270.166(10.7)
915.44 16	0.0153 10	⁶² Zn(9.186 h)	596.56(26), 40.84(25.5), 548.35(15.3)
915.5 2	0.23 3	¹⁴⁶ Ba(2.22 s)	140.7(20.2), 251.2(19.6), 121.2(14.2)
• 915.5 3	9.0×10^{-6} 3	¹⁴⁹ Pm(53.08 h)	285.95(3.1), 859.46(0.109), 590.88(0.069)
915.5 3	0.057 13	¹⁵³ Dy(6.4 h)	80.723(11.10), 213.754(10.90), 99.659(10.51)
• 915.55 5	4.13 16	¹²⁵ Sn(9.64 d)	1067.10(10), 1089.15(4.59), 822.48(4.28)
915.6 5	0.05 5	¹⁴² La(91.1 m)	641.285(47), 2397.8(13.3), 2542.7(10.00)
915.6 2	0.25 4	¹⁸³ Au(42.0 s)	161.18(9.4), 214.13(5.9), 313.08(5.0)
• 915.7 5	0.17 5	¹⁴⁶ Eu(4.59 d)	747.2(98), 633.03(43), 634.07(37)
915.7 4	0.0102 15	¹⁵² Eu(9.274 h)	841.586(14.6), 963.37(12.01), 121.7824(7.21)
915.7 6	0.16 3	¹⁵⁹ Eu(18.1 m)	67.8(19), 78.6(9.1), 95.7(7.0)
915.8 1	0.601 12	⁷⁹ Rb(22.9 m)	688.1(23), 182.77(19.2), 143.41(13.9)
915.80 13	0.0514 18	¹³⁷ Ce(9.0 h)	447.15(1.8), 10.6(0.8), 436.59(0.265)
915.8 7	0.07 4	¹⁷⁵ Ta(10.5 h)	207.4(14.0), 348.5(12.0), 266.9(10.8)
915.8 4	0.022 6	²¹⁴ Bi(19.9 m)	609.312(44.8), 1764.494(15.36), 1120.287(14.80)
915.93	0.005 4	³⁹ Cl(55.6 m)	1267.185(54), 250.332(46.3), 1517.508(39.2)
915.98 9	1.22 10	²⁴⁰ Np(61.9 m)	566.34(25.3), 973.9(23.8), 600.57(18.4)
915.98 9	1.02 3	²⁴⁰ Np(7.22 m)	554.60(20.9), 597.40(11.7), 1496.9(1.33)
• 915.98 9	0.087 6	²⁴⁰ Am(50.8 h)	987.76(73.2), 888.80(25.1), 98.860(1.5)
916.0 2	6.5 25	¹⁰³ Zr(1.3 s)	248(100), 164.05(94), 126.30(84)
916.10 15	7.6 4	⁹⁴ Tc(293 m)	871.082(100), 702.626(99.6), 849.74(95.7)
916.2 7	0.10 6	¹¹¹ Pd(5.5 h)	70.44(8.3), 391.25(5.4), 632.80(3.6)
916.3 3	0.28 3	⁷⁵ Kr(4.3 m)	132.43(67), 154.66(20.8), 153.15(8.0)
916.3 4	0.11 5	¹⁸⁵ Au(4.25 m)	310.6(13), 243.1(6.6), 77.7(6)
• 916.4	0.032 6	¹⁵⁶ Eu(15.19 d)	811.79(9.70), 88.9667(8.4), 1230.68(7.98)
916.5 5	0.082 19	⁸³ Y(7.08 m)	35.50(0.44), 882.1(6.30), 489.90(5.53)
916.5 4	1.20 12	¹²⁷ Sn(2.10 h)	1114.3(39), 1095.6(20), 823.1(10.9)
• 916.5 5	0.022 12	¹⁵³ Tb(2.34 d)	212.038(31.0), 170.504(6.8), 109.758(6.4)
916.5 5	0.18 4	¹⁶¹ Tm(33 m)	45.54(5.00), 1648.1(9.50), 84.40(9.4)
916.5 2	0.024 6	²³⁴ Pa(6.70 h)	131.30(18), 946.00(13.4), 883.24(9.6)
916.53 5	4.3 3	¹⁴³ Gd(112 s)	271.94(84), 588.00(15.7), 798.89(10.7)
• 916.65	0.099 9	¹⁷⁰ Lu(2.00 d)	84.2551(4.256), 1280.25(3.450), 2041.88(1.434)
916.69 22	7.3 11	¹⁰³ In(65 s)	187.97(55), 720.32(13.9), 739.95(10.1)
• 916.710 29	0.87 3	¹⁶⁹ Lu(34.06 h)	960.622(23.4), 191.2137(20.6), 1449.74(9.92)
• 916.75 25	0.125 14	¹⁹⁰ Ir(11.78 d)	186.718(52.4), 605.24(39.9), 518.55(34.0)
916.8 3	0.6 5	¹⁹⁶ Bi(308 s)	1049.21(87), 689.00(35.5), 776.6(9.1)
916.81 9	0.205 20	¹⁶³ Tm(1.810 h)	104.320(18.6), 69.229(11.6), 241.305(10.9)
916.9 3	1.52 15	¹³⁹ Nd(29.7 m)	405.12(7), 1074.2(2.5), 669.0(1.52)
916.9 3	0.055 15	¹⁴³ Ba(14.33 s)	211.475(25), 798.79(15.6), 980.45(11.55)
• 916.90	0.067 7	¹⁷⁰ Lu(2.00 d)	84.2551(4.256), 1280.25(3.450), 2041.88(1.434)
916.9 3		¹⁹² Au(4.94 h)	316.50791(58.0), 295.95827(22.3), 2236.89(5.6)
916.9 10	0.23 5	²⁰¹ Bi(108 m)	629.1(24.0), 936.2(11.3), 1014.1(10.7)
• 916.91 10	0.132 4	⁸³ Sr(32.41 h)	762.65(30), 381.53(14.1), 418.37(4.41)
917.0 4	0.16 5	⁹⁷ Rb(169.9 ms)	167.1(26), 585.2(21.0), 600.5(10.6)
917 2	†2.7	¹⁰⁷ Sn(2.90 m)	1129.2(†100), 678.5(†100), 1540.6(†30)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
• 917.0 5	0.052 21	¹⁴⁷ Gd(38.06 h)	229.32(63), 396.00(34.3), 929.01(20.2)
917.00 10	0.87 10	¹⁵¹ Dy(17.9 m)	386.10(19.4), 49.46(18.0), 546.31(14.3)
917.0 5	0.14	¹⁵⁴ Pm(1.73 m)	2057.76(17.1), 1393.9(14.4), 81.99(12.6)
917.0 3	1.37 8	²³⁶ Pa(9.1 m)	642.35(37.0), 687.59(9.9), 1762.7(6.0)
917.0 5	0.08 3	²⁴⁵ Pu(10.5 h)	327.428(25.4), 560.13(5.4), 308.222(4.9)
917.05 13	0.065 19	⁹⁸ Nb(51.3 m)	787.374(93), 722.645(73.8), 1168.830(17.8)
917.1 2	0.18 3	¹⁸³ Ir(58 m)	392.52(10.4), 228.70(6.9), 87.67(5.6)
917.13 6	0.92 4	¹³⁸ Xe(14.08 m)	258.411(31.5), 434.562(20.3), 1768.26(16.7)
917.13 20	0.59 6	¹⁶² Ho(67.0 m)	185.005(28.6), 1220.0(22.5), 282.864(11.3)
917.15 27	1.14 6	¹⁴⁶ Cs(0.343 s)	181.02(57.0), 557.76(9.18), 332.38(6.44)
917.16 6	4.4 5	¹²³ Cd(2.10 s)	371.32(51), 1052.28(24.8), 1438.13(8.3)
917.3 4	0.32 11	¹⁴⁸ Ho(9.59 s)	1687.5(82.47), 660.8(58.94), 504.3(18.62)
917.3 5	†5.5 9	¹⁹¹ Tl(5.22 m)	452.6(†100), 470.1(†98), 391.6(†96)
917.3	†5.5	¹⁹⁸ Bi(693 s)	1063.5(†100), 197.6(†80), 562.4(†79)
917.3 5	0.067 13	²²⁶ Fr(48 s)	253.73(22.3), 186.05(16.3), 253.9(2.5)
917.4	0.055 9	¹⁴¹ Ba(18.27 m)	190.328(46.0), 304.194(25.4), 276.948(23.4)
917.4 3	0.14 3	¹⁶⁴ Lu(3.14 m)	123.3(34.0), 740.52(12.2), 262.22(10.8)
917.4 2	0.035 9	¹⁷³ Ta(3.14 h)	172.2(18), 69.70(5.9), 90.3(5.0)
917.41 7	0.0031	²³⁹ U(23.45 m)	74.664(48), 43.533(4.14), 662.24(0.18)
917.44 16	0.48 7	¹⁵⁰ Pm(2.68 h)	333.971(68), 1324.51(17.5), 1165.739(15.8)
917.44 16	0.044 8	¹⁵⁰ Eu(12.8 h)	333.971(4.0), 406.52(2.81), 1165.739(0.257)
• 917.45 17	0.0128 22	¹³⁷ Ce(34.4 h)	824.82(0.44), 169.26(0.44), 762.3(0.192)
917.47 5	0.23 3	¹⁵⁸ Eu(45.9 m)	944.09(25), 977.131(13.6), 79.5104(11)
917.5 2	1.2 11	¹⁰³ Zr(1.3 s)	248(100), 164.05(94), 126.30(84)
917.5 1	0.68 5	¹⁰⁹ Ru(34.5 s)	206.29(22.0), 225.98(19.6), 1929.05(13.7)
917.51 16	0.43 6	¹⁸⁶ Au(10.7 m)	191.56(62), 298.67(25.4), 764.89(10.5)
917.59 22	0.19 3	⁹¹ Rb(58.4 s)	93.628(33.7), 2564.19(12.5), 3599.67(10.4)
917.6 2	5.3 5	⁷⁶ Rb(39.1 s)	2571.3(47), 424.0(43.4), 355.6(8.2)
• 917.6 3	0.09 4	¹¹⁹ Te(4.70 d)	153.59(66), 1212.73(66), 270.53(28.0)
917.6 3	†3.0 6	¹⁴² Xe(1.22 s)	571.83(†100), 657.05(†79), 538.24(†77)
917.7 5	0.149 21	¹¹⁶ Te(2.49 h)	93.70(31.4), 628.63(3.22), 102.97(1.95)
917.7 3	†0.22 6	¹⁵⁸ Ho(11.3 m)	218.21(†100.0), 98.91(†70), 945.7(†37)
917.78 20	0.074 12	⁸⁹ Kr(3.15 m)	220.948(20.1), 586.03(16.6), 904.27(7.2)
917.79 15	†19 3	¹⁸¹ Pt(51 s)	289.29(†100), 111.97(†100), 230.15(†92)
917.8 5	0.034 9	¹⁵¹ Tb(17.609 h)	287.357(28.3), 251.863(26.3), 108.088(24.3)
• 917.90 20	0.087 16	¹⁵³ Tb(2.34 d)	212.038(31.0), 170.504(6.8), 109.758(6.4)
917.9 3	0.052 11	¹⁵³ Dy(6.4 h)	80.723(11.10), 213.754(10.90), 99.659(10.51)
918 1	6 3	¹⁴⁰ Gd(15.8 s)	174.8(76), 749.9(70), 379.0(38)
918.0 5	0.034 6	¹⁵¹ Tb(17.609 h)	287.357(28.3), 251.863(26.3), 108.088(24.3)
918.1 3	0.25 3	¹⁸⁴ Au(53.0 s)	162.97(50), 272.98(40), 362.47(17.5)
918.15 7	10.8 8	²⁰⁴ Bi(11.22 h)	899.15(98), 374.72(82), 984.02(59)
918.18 7	0.82 11	²⁰³ Po(36.7 m)	908.64(55), 1090.95(19.2), 893.49(18.7)
• 918.2		¹⁴⁶ Eu(4.59 d)	747.2(98), 633.03(43), 634.07(37)
918.2 2	†5.0 5	¹⁶⁸ Re(4.4 s)	199.3(†100), 363.2(†95), 479.8(†62.8)
918.29 15	0.00062 15	¹²⁹ Te(69.6 m)	27.81(16.3), 459.60(7.70), 487.39(1.42)
918.3 2	0.583 14	¹⁴⁰ Cs(63.7 s)	602.345(71.1), 908.25(11.6), 1200.25(6.39)
918.3 3	†6.1 15	¹⁴⁷ Ho(5.8 s)	189.1(†100), 883.9(†100), 486.7(†61)
• 918.3	0.022	¹⁵³ Tb(2.34 d)	212.038(31.0), 170.504(6.8), 109.758(6.4)
918.3 1	11 1	²¹¹ Fr(3.10 m)	539.9(20), 281(6.8), 983(4.0)
918.39 5	1.06 7	⁷⁹ Ga(2.847 s)	464.79(24.2), 516.41(21.5), 1187.28(12.8)
918.4	0.43	¹⁴⁸ Pr(2.27 m)	301.702(61), 1357.78(5.5), 1023.18(4.8)
918.4 1	0.099 10	²³⁴ Pa(6.70 h)	131.30(18), 946.00(13.4), 883.24(9.6)
918.48 10	0.287 25	²³⁰ Ac(122 s)	454.95(8), 508.20(5.15), 1243.9(3.50)
• 918.48 10	8.2 4	²³⁰ Pa(17.4 d)	951.95(1.65), 454.95(6.27), 898.68(5.8)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
918.50 10	6.9 4	⁸⁸ Nb(7.8 m)	1057.01(89.3), 1082.53(53.9), 399.41(45.7)
918.6 1	0.075 5	⁹⁶ Y(5.34 s)	1750.42(2.350), 2225.93(0.322), 475.33(0.188)
918.6 3	†1.9 4	¹⁸⁹ Hg(7.6 m)	320.99(†100), 78.21(†63), 565.42(†48)
918.68 10	0.198 23	¹³² La(4.8 h)	464.55(76), 567.14(15.7), 1909.91(9.0)
• 918.69 4	0.59 2	²³⁸ Np(2.117 d)	984.45(27.8), 1028.54(20.3), 1025.87(9.6)
918.69 4	23.0 14	²³⁸ Am(98 m)	962.77(28), 561.11(10.9), 605.13(7.6)
• 918.69 4	5.4×10^{-7} 20	²⁴² Cm(162.8 d)	44.08(0.0325), 101.90(0.0025), 157.42(0.0014)
918.7 3	0.069 9	¹¹² Ag(3.130 h)	617.27(43), 1387.67(5.4), 606.49(3.1)
918.7 4	0.101 19	¹²¹ Xe(40.1 m)	252.7(13), 132.8(10.9), 445.2(7.7)
918.7 3	†1.59 23	²⁰¹ Po(15.3 m)	890.1(†100), 240.1(†71.0), 904.2(†54.8)
• 918.7 3	8.0×10^{-9} 3	²³⁹ Pu(24110 y)	51.624(0.007100), 38.661(0.000500), 129.297(0.00631)
918.74 5	56	⁹⁴ Y(18.7 m)	1138.88(6.0), 550.88(4.9), 1671.41(2.46)
918.76 4	8.08 17	⁶⁴ Ga(2.630 m)	991.52(43), 807.86(13.65), 3365.86(13.1)
918.8 2	0.270 18	¹⁴⁷ Pr(13.4 m)	77.9921(15), 314.675(13.2), 641.380(10.0)
918.9 5	0.7 4	¹²⁵ Cd(0.65 s)	436.29(37), 1099.48(22.3), 2147.19(19.1)
918.9 2	†4.1 4	¹⁸⁵ Hg(21.6 s)	222.8(†100.0), 258.7(†98), 212.5(†58)
918.9 5	<0.007	²³³ Th(22.3 m)	86.477(2.7), 29.374(2.5), 459.222(1.4)
918.97 10	0.028 3	²²⁸ Ac(6.15 h)	911.205(26.6), 968.971(16.2), 338.322(11.3)
919.0 10	0.79 17	⁷⁷ Zn(2.08 s)	189.49(28.1), 473.94(19.7), 1832.0(12.4)
919.0 2	0.12 5	¹⁰⁴ Tc(18.3 m)	358.0(89), 530.5(15.6), 535.1(14.7)
919	†0.10 1	¹³⁶ Pm(107 s)	373.8(†100), 602.7(†38.4), 857.2(†23.4)
919.0 2	0.27 3	²⁰⁰ Po(11.5 m)	671.0(34.0), 617.7(19.7), 434.4(9.3)
919.06 8	0.65 3	⁸⁵ Br(2.90 m)	802.41(2.56), 924.63(1.63), 1727.02(0.381)
919.1 2	0.094 16	⁶¹ Zn(89.1 s)	475.0(16.85), 1660.5(7.80), 970.0(2.57)
919.18 10	0.29 2	¹⁴³ La(14.2 m)	620.3(2.34), 643.75(1.55), 621.4(1.52)
919.2 5	0.11 3	¹⁵⁹ Er(36 m)	624.5(33), 649.1(23.4), 205.92(9.7)
919.23 20	0.29	¹⁵⁴ Pm(1.73 m)	2057.76(17.1), 1393.9(14.4), 81.99(12.6)
• 919.24	0.0123 6	¹⁵⁴ Eu(8.593 y)	123.071(40.79), 1274.436(35.19), 723.304(20.22)
919.28 7	4.2 3	¹²¹ In(23.1 s)	925.57(87), 261.96(7.9), 657.32(7.1)
919.3 3	0.86 3	⁴⁵ K(17.3 m)	174.276(74.4), 1705.6(53), 2353.6(14.12)
919.3 4	0.14 4	¹⁰⁰ Y(735 ms)	212.531(73), 118.59(15.4), 665.98(7.7)
• 919.3 7	0.0018 9	¹⁵¹ Pm(28.40 h)	340.08(23), 167.75(8.3), 275.21(6.8)
919.3 2	0.141 24	¹⁸³ Au(42.0 s)	161.18(9.4), 214.13(5.9), 313.08(5.0)
919.3 2	†0.77 11	¹⁹² Tl(9.6 m)	422.8(†100), 634.8(†75.9), 786.3(†31.7)
919.38 24	0.14 6	⁶⁶ Ge(2.26 h)	43.89(28.7), 381.85(28), 272.97(10.4)
919.401 8	0.35 3	¹⁵² Pm(4.1 m)	121.7824(15.7), 841.586(2.17), 961.06(1.92)
919.401 8	1.29 11	¹⁵² Pm(7.52 m)	244.6989(78), 121.7824(45), 340.48(31.3)
• 919.401 8	0.436 10	¹⁵² Eu(13.542 y)	121.7824(28.4), 1408.011(20.87), 964.131(14.34)
919.41 62	0.06 4	¹⁴¹ Xe(1.73 s)	909.23(24.0), 118.705(16.1), 105.937(9.8)
919.5 3	0.34 3	²²⁸ Fr(39 s)	473.7(10.2), 474.0(7.6), 410.40(6.3)
• 919.550 23	2.66 3	¹⁴⁰ La(1.6781 d)	1596.210(95), 487.021(45.5), 815.772(23.28)
919.6 8	0.33 9	¹⁰⁷ In(32.4 m)	204.97(47), 505.51(11.9), 320.92(10.2)
• 919.60 9	0.0089 5	¹³¹ Ba(11.50 d)	496.326(47), 123.805(28.97), 216.078(19.66)
919.71 10	0.012	¹¹⁵ Sb(32.1 m)	497.358(98), 489.27(1.3), 1236.52(0.58)
919.8 9	†0.010 5	⁸⁵ Sr(67.63 m)	151.159(†1272), 129.820(†15), 731.812(†1.45)
919.8 3	0.27 14	²⁰⁷ Rn(9.25 m)	344.53(46), 747.15(14.2), 402.68(11.9)
919.93 12	0.102 15	¹⁵¹ Nd(12.44 m)	116.80(43.4), 255.68(16.4), 1180.89(14.8)
919.97 15	0.25 4	¹⁶⁷ Lu(51.5 m)	29.66(14.4), 239.22(8.6), 213.19(3.6)
920.0 4	0.76 4	⁹⁹ Rh(4.7 h)	340.71(70), 617.8(12.0), 1261.2(11)
920.0 3		¹⁴⁶ Dy(29 s)	2156.8, 1915.7, 1876.7
920		¹⁹⁰ Ir(3.25 h)	616.08(93.10), 502.53(92.31), 361.136(89.57)
920.0 4	†6.1 17	¹⁹³ Hg(3.80 h)	861.11(†100), 1118.84(†64), 789.21(†36)
• 920.0 5	†0.00075 19	²²⁷ Th(18.72 d)	235.971(†813), 50.13(†528), 256.25(†463)
• 920.0 10		²³³ U(1.592×10^5 y)	42.44(0.0862), 97.134(0.020), 54.699(0.0182)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
920.1 7	0.105 23	¹⁰³ Cd(7.3 m)	1461.81(12), 1448.70(5.55), 1079.90(5.44)
920.1 1	†1.20 12	¹⁷¹ Ta(23.3 m)	49.6(†100), 506.4(†54), 501.8(†22.6)
920.13 17	0.61 6	²⁰⁹ Tl(2.20 m)	1567.09(99.8), 465.130(96.9), 117.211(84.3)
920.2 3	0.07 3	⁹⁸ Nb(51.3 m)	787.374(93), 722.645(73.8), 1168.830(17.8)
920.2 9	†1.10 17	¹⁰² Tc(4.35 m)	475.070(†115), 628.05(†35.3), 631.28(†21.3)
• 920.24 8	0.040 4	¹⁶⁵ Tm(30.06 h)	242.917(35.5), 47.155(16.9), 297.369(12.71)
920.25 2	0.178 20	¹⁴⁵ Cs(0.594 s)	175.36(20), 198.93(10.9), 112.46(10.71)
920.25 10	1.16 10	¹⁹⁷ Pb(43 m)	385.85(74), 387.72(25.1), 222.45(24.6)
920.26 4	0.55 3	²⁰⁸ Rn(24.35 m)	426.78(7.07), 251.05(5.02), 350.026(3.34)
920.28 20	0.28 3	¹⁶³ Yb(11.05 m)	860.28(10.1), 63.62(6.5), 123.21(1.98)
920.29 11	0.163 20	¹⁵³ Dy(6.4 h)	80.723(11.10), 213.754(10.90), 99.659(10.51)
920.3 2	0.0039 16	¹⁴⁹ Nd(1.728 h)	211.309(25.9), 114.314(19.2), 270.166(10.7)
920.32 8	0.117 18	¹⁶⁷ Yb(17.5 m)	113.34(55.3), 106.18(22.5), 176.25(21)
920.347 24	0.0179 9	¹³⁴ La(6.45 m)	604.699(5.05), 1554.934(0.414), 563.227(0.359)
920.4 1	0.0019 6	¹²⁷ Cs(6.25 h)	411.95(62.8), 124.70(11.37), 462.31(5.07)
920.4 2		¹⁴² Eu(2.34 s)	768.1(10), 1658.1(1.75), 1754.1(1.49)
• 920.41 21	0.051 12	¹⁶⁹ Lu(34.06 h)	960.622(23.4), 191.2137(20.6), 1449.74(9.92)
920.5 3	0.21 4	¹⁰³ Cd(7.3 m)	1461.81(12), 1448.70(5.55), 1079.90(5.44)
920.5 2	†8×10 ⁰³ 3	¹¹⁹ In(18.0 m)	1065.55(†80000), 1249.71(†44000), 1163.85(†32000)
920.5	†100	¹³⁰ Ce(25 m)	1072.6(†100), 997.7(†100), 851.5(†80)
920.5	0.026 9	¹⁴⁹ Tb(4.118 h)	352.24(29.43), 164.98(26.4), 388.57(18.37)
920.5 5	0.24	¹⁶⁷ Dy(6.20 m)	569.7(48), 259.33(27.9), 310.26(25.0)
920.5 5	1.3 3	¹⁸¹ Os(105 m)	238.75(44), 826.77(20), 118.03(12.9)
920.5 3	0.60 8	¹⁸¹ Au(11.4 s)	198.60(4.4), 2022.4(4.2), 79.40(4.2)
920.5 2	0.029 7	²³⁴ Pa(6.70 h)	131.30(18), 946.00(13.4), 883.24(9.6)
• 920.553 7	0.303 8	⁷¹ As(65.28 h)	174.954(82.00), 1095.490(4.08), 499.876(3.624)
920.57 4	0.486 20	¹¹⁸ In(4.45 m)	1229.68(96), 1050.69(81.0), 683.08(54.3)
• 920.62 5	1.57 10	¹³¹ Te(30 h)	773.67(49.9), 852.21(27.0), 793.75(18.10)
920.63 3	0.0193 5	¹³³ La(3.912 h)	278.835(2.50), 302.353(1.648), 290.06(1.413)
920.63 8	0.44 9	²⁰⁴ At(9.2 m)	684.341(95), 516.318(90), 426.253(67.5)
920.7 3	0.11 4	⁸¹ Ga(1.221 s)	216.47(37.4), 828.26(22.1), 711.18(17.6)
920.7 4	1.39 14	⁸⁹ Nb(1.9 h)	1627.20(3.4), 1833.46(3.16), 3092.7(3.0)
920.7 2	0.66 6	¹⁰¹ Zr(2.1 s)	119.3(10.8), 205.6(6.0), 912.2(3.48)
920.7 1	0.085 17	¹⁹¹ Au(3.18 h)	586.45(17), 277.88(7.2), 674.19(6.8)
920.710 5	0.146 3	¹⁴⁵ Pr(5.984 h)	748.278(0.5250), 675.795(0.514), 72.500(0.261)
920.8 5	0.068 20	¹¹⁵ Ag(20.0 m)	229.08(18), 212.80(4.4), 472.70(4.0)
920.8 8	0.07 3	¹⁵⁶ Ho(56 m)	266.35(54.7), 137.83(51), 366.25(10.73)
920.85 3	0.094 11	⁵⁷ Mn(87.2 s)	122.0614(13.9), 14.41300(10.56), 692.03(5.50)
920.87 8	0.0028	²³⁹ U(23.45 m)	74.664(48), 43.533(4.14), 662.24(0.18)
920.9 4	0.6 3	¹⁰² Cd(5.5 m)	481.0(63), 1036.6(12.8), 505.1(9.6)
920.932 9	32.0 8	¹⁸⁴ Ta(8.7 h)	414.03(72), 252.848(43), 111.208(23.7)
• 920.932 9	8.14 12	¹⁸⁴ Re(169 d)	252.848(10.7), 216.548(9.43), 161.269(6.49)
920.94 4	0.108 6	¹⁵⁵ Dy(9.9 h)	226.918(68.4), 184.564(3.37), 1089.8(>2.8)
920.98 7	0.52 4	⁸⁷ Br(55.60 s)	1419.71(22.0), 1476.04(7.9), 1577.60(6.0)
921.0 2	0.28 4	⁹² Kr(1.840 s)	142.307(64), 1218.6(60), 812.6(14.6)
921.01 5	4.0 4	¹³⁰ Sb(6.3 m)	839.49(100), 793.53(86), 182.36(41)
921.04 9	0.0711 16	⁷⁷ Ge(11.30 h)	264.44(54), 211.03(30.8), 215.50(28.6)
• 921.04 22	0.023 5	¹⁰⁵ Ag(41.29 d)	344.520(41), 280.41(30.2), 644.55(11.1)
921.10 12	4.6 5	⁵⁵ V(6.54 s)	517.71(73), 880.70(18.1), 565.88(4.50)
• 921.1 2	0.016 8	⁷¹ As(65.28 h)	174.954(82.00), 1095.490(4.08), 499.876(3.624)
921.1 3	0.29 4	¹²⁰ Xe(40 m)	25.1(30), 72.6(9), 178.1(6.8)
921.1 1	0.075 10	¹⁵⁷ Er(18.65 m)	53.05(24), 391.32(14.2), 121.57(10.1)
921.1 4	0.26 7	²⁰⁸ At(1.63 h)	686.527(98), 660.040(89), 177.595(48.6)
921.17 30	0.85 7	¹⁵⁰ Pm(2.68 h)	333.971(68), 1324.51(17.5), 1165.739(15.8)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
921.17 30	0.210 16	¹⁵⁰ Eu(12.8 h)	333.971(4.0), 406.52(2.81), 1165.739(0.257)
921.19 10	0.227 17	⁹³ Kr(1.286 s)	253.42(41.2), 323.89(24.1), 266.83(20.6)
921.20 24	0.30 7	⁹⁰ Rb(258 s)	831.69(94), 1375.36(16.7), 3317.00(14.4)
921.2 1	0.169 11	¹³⁷ Pr(1.28 h)	836.7(1.8), 433.9(1.28), 514.0(1.08)
921.2 6	0.66 4	¹³⁷ Pm(2.4 m)	177.5(40.29), 108.6(35), 233.6(29.57)
921.20 8	0.20 4	¹⁴³ Cs(1.78 s)	195.554(13), 232.421(8.32), 306.424(6.80)
921.2 2	0.4 1	²³⁶ Pa(9.1 m)	642.35(37.0), 687.59(9.9), 1762.7(6.0)
921.3 3	0.42 10	¹¹⁵ Te(5.8 m)	723.569(30), 1380.58(23.0), 1326.83(22.7)
921.3 4	†1.30 14	¹²⁰ I(81.0 m)	560.44(†137), 1523.0(†21.1), 640.85(†17.1)
921.3 4	4.3 5	¹²⁰ I(53 m)	560.44(100), 601.11(87), 614.62(67)
921.31 13	0.56 11	¹⁴⁸ La(1.05 s)	158.468(55.6), 989.85(9.3), 760.30(8.6)
921.36 6	6.1	¹⁵⁴ Pm(1.73 m)	2057.76(17.1), 1393.9(14.4), 81.99(12.6)
921.36 6	2.8	¹⁵⁴ Pm(2.68 m)	184.810(32), 81.99(15.4), 546.66(14.5)
921.4	12.9 20	³⁶ Si(0.45 s)	175.0(68), 249.9(68), 878.2(44)
921.4 6	0.024 5	¹¹¹ Pd(23.4 m)	580.00(0.8), 70.44(0.78), 1459.0(0.56)
921.4 6	0.9 3	¹¹⁶ Cs(3.84 s)	393.5(<0.09), 524.3(76), 615.1(30.4)
921.4 2	†2.6×10 ⁻³ 10	¹¹⁹ In(18.0 m)	1065.55(†80000), 1249.71(†44000), 1163.85(†32000)
• 921.43 5	0.0825 19	¹²⁵ Sn(9.64 d)	1067.10(10), 1089.15(4.59), 822.48(4.28)
921.44 6	0.147 6	¹⁴⁵ Ce(3.01 m)	724.33(59), 62.54(13.33), 1148.03(9.15)
921.5 3	0.070 9	¹¹² Sb(51.4 s)	1257.05(96), 990.70(14.3), 670.0(3.7)
921.5 7	0.48 10	¹⁷⁶ Tm(1.9 m)	189.57(44.5), 1069.3(34), 381.8(21.8)
• 921.5 3	†1.9×10 ⁻³ 4	²⁴¹ Am(432.2 y)	59.537(†60), 26.345(†1000×10 ⁹), 33.195(†6000×10 ⁸)
921.5 10	†19 3	²⁴⁴ Bk(4.35 h)	891.5(†100), 217.6(†88), 490.5(†15.8)
921.59 5	2.25 13	¹⁹⁵ Tl(1.16 h)	563.52(10.5), 884.47(10.0), 1363.88(8.4)
• 921.6 4	0.0009 5	⁷⁶ As(26.32 h)	559.101(45), 657.041(6.2), 1216.104(3.42)
921.6 1	0.444 12	⁷⁹ Rb(22.9 m)	688.1(23), 182.77(19.2), 143.41(13.9)
921.6 4	0.11	²⁰⁹ Rn(28.5 m)	408.32(50.3), 745.78(22.8), 337.45(14.5)
921.62 5	0.478 9	¹⁰⁵ Cd(55.5 m)	961.84(4.69), 346.870(4.20), 1302.459(3.98)
921.7 1	†0.18 5	¹⁶⁰ Ho(5.02 h)	728.18(†100), 879.383(†65.9), 962.317(†59.1)
921.70 10	†0.269×10 ⁻³ 4	²³⁴ Pa(1.17 m)	1001.03(†837000), 766.38(†294000), 742.81(†80000)
921.74 17	0.54 10	¹⁷⁵ Tm(15.2 m)	514.868(65), 941.23(15), 363.942(12.7)
921.8 3	1.23 14	¹⁰⁷ In(32.4 m)	204.97(47), 505.51(11.9), 320.92(10.2)
921.80 20	0.32 7	¹⁵⁹ Tm(9.13 m)	38.35(5.8), 84.8(5.8), 271.30(5.1)
921.90 30	0.11 3	¹¹⁴ Sb(3.49 m)	1299.90(99), 887.60(17.4), 327.18(7.0)
921.9 4	0.7 3	¹²² Cs(4.5 m)	331.1(94), 497.1(79), 638.5(63)
921.9 5	0.25 6	¹³⁶ Nd(50.65 m)	108.90(32), 40.2(18.9), 574.8(10.4)
• 921.94 4	0.0172 10	¹⁷¹ Lu(8.24 d)	739.78(47.8), 19.394(13.7), 667.404(11.04)
921.96 6	6.1 5	⁸⁶ Nb(88 s)	751.74(97.8), 914.81(78.1), 1003.24(37.4)
921.98 10	0.0152 21	²²⁸ Ac(6.15 h)	911.205(26.6), 968.971(16.2), 338.322(11.3)
921.98 10	>0.6	²²⁸ Pa(22 h)	911.205(4.19), 463.005(1.250), 964.770(4.25)
922.0 3	0.14 5	⁹⁹ Sr(0.269 s)	125.118(16.1), 536.12(14.0), 1198.12(9.2)
922	0.8	¹²⁵ Cs(45 m)	526(24), 111.8(9), 412(5)
922 1	0.12 6	¹³³ Te(12.5 m)	312.072(62), 407.63(27.1), 1333.21(10.67)
922.0 3	0.079 17	¹⁵³ Dy(6.4 h)	80.723(11.10), 213.754(10.90), 99.659(10.51)
• 922.1 7	0.0014 7	¹⁵¹ Pm(28.40 h)	340.08(23), 167.75(8.3), 275.21(6.8)
922.1 9	0.39 12	¹⁵⁴ Tb(9.4 h)	123.071(30), 247.925(22.1), 540.18(20)
922.1 9	0.51 12	¹⁵⁴ Tb(9.4 h)	123.071(30), 247.925(22.1), 540.18(20)
922.2 2	0.070 9	²⁰⁹ At(5.41 h)	545.0(91), 781.9(83.5), 790.2(63.5)
922.23 18	†0.87 13	¹⁸⁸ Au(8.84 m)	265.63(†100), 340.04(†23.9), 605.5(†16.3)
• 922.26 7	0.053 3	²⁰⁵ Bi(15.31 d)	1764.36(1.368), 703.44(31), 987.62(0.585)
922.3 4	0.07 3	⁹⁸ Nb(51.3 m)	787.374(93), 722.645(73.8), 1168.830(17.8)
922.3 1	1.3 5	¹⁰⁰ Ag(2.01 m)	665.54(99), 750.67(78), 773.20(24.2)
922.3 1	7.2 22	¹⁰⁰ Ag(2.24 m)	665.54(86), 750.67(>26), 1693.9(14.7)
922.3 3	0.57 3	²²⁸ Fr(39 s)	473.7(10.2), 474.0(7.6), 410.40(6.3)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
• 922.33 8	0.121 12	¹⁵⁶ Tb(5.35 d)	534.318(66.6), 199.2132(40.9), 1222.36(31.00)
• 922.36 12	0.0027 5	¹⁴⁷ Eu(24.1 d)	197.299(27), 121.220(22.9), 677.516(9.8)
922.4 1	0.063 14	¹⁴⁴ Ba(11.5 s)	103.855(23.30), 430.48(18.3), 172.828(15.4)
922.4 3	0.25 3	¹⁵⁸ Eu(45.9 m)	944.09(25), 977.131(13.6), 79.5104(11)
922.5 5	0.06	⁴³ Ar(5.37 m)	975.0(34), 738.1(15), 1439.5(13)
922.50 5	1.35 15	¹⁵⁸ Eu(45.9 m)	944.09(25), 977.131(13.6), 79.5104(11)
922.50 20	0.186 25	¹⁵⁸ Tm(3.98 m)	192.13(62), 335.10(16.8), 1149.83(7.6)
922.6 3	0.23 13	¹²¹ Cs(155 s)	153.9(15.2), 239.6(7.7), 427.1(3.63)
922.6 3	0.18 10	¹²¹ Cs(122 s)	179.4(30.2), 196.0(24.1), 459.7(12.0)
922.6 3	0.14 3	¹³⁴ I(52.6 m)	847.025(95.4), 884.090(64.9), 1072.547(15.0)
922.70 11	0.33 3	⁹³ Sr(7.423 m)	590.238(67), 875.73(24.1), 888.13(21.8)
922.7 6	0.20 3	¹⁹⁸ Tl(5.3 h)	411.8044(82), 675.8874(11), 636.4(10.1)
922.7 2	0.0012	²³⁹ U(23.45 m)	74.664(48), 43.533(4.14), 662.24(0.18)
922.75 9	1.15 25	¹⁸⁶ Ta(10.5 m)	197.93(50), 214.87(42.3), 510.82(37.5)
922.92 8	2.33 12	¹⁴⁶ Pr(24.15 m)	453.88(48.0), 1523.7(15.6), 735.72(7.5)
923		⁷⁶ Br(16.2 h)	559.101(74), 657.041(15.9), 1853.67(14.7)
923 1	†25 4	¹¹⁶ Xe(56 s)	104.5(†100), 310.7(†42), 247.7(†40)
923.0 5	2.38 7	¹³⁷ Pm(2.4 m)	177.5(40.29), 108.6(35), 233.6(29.57)
923.0 7	0.029 15	¹⁶¹ Er(3.21 h)	826.6(3.0), 211.15(12.2), 592.6(3.7)
923.0 4	0.09 5	¹⁸⁵ Au(4.25 m)	310.6(13), 243.1(6.6), 77.7(6)
• 923.0 2	0.041 3	²³² Pa(1.31 d)	969.315(41.6), 894.351(19.8), 150.059(10.8)
923.0 2	0.94 10	²³² Np(14.7 m)	327.3(52), 819.187(33.3), 866.760(24.4)
923.0 6	0.051 17	²⁴⁵ Pu(10.5 h)	327.428(25.4), 560.13(5.4), 308.222(4.9)
923.05 8	0.308 19	⁸¹ Sr(22.3 m)	153.54(33.8), 147.76(30.1), 443.34(17.5)
923.08 3	0.00093 19	¹⁵⁵ Sm(22.3 m)	104.3346(74.6), 245.771(3.7), 141.4428(1.98)
923.1 3	0.084 22	¹⁶³ Tm(1.810 h)	104.320(18.6), 69.229(11.6), 241.305(10.9)
923.1 3	0.014	¹⁷⁰ Hf(16.01 h)	164.78(33), 620.7(23), 120.17(19)
923.12 6	5.6 6	²⁰⁶ At(30.0 m)	700.66(98), 477.10(86), 395.54(48)
923.14 3	0.690 16	⁷⁷ Ge(11.30 h)	264.44(54), 211.03(30.8), 215.50(28.6)
• 923.15 19	0.0059 13	¹⁴⁵ Eu(5.93 d)	893.73(66), 653.512(15.0), 1658.53(14.9)
923.2 1	6.9 4	¹¹⁹ Cd(2.20 m)	1025.0(24.8), 2021.3(22.6), 720.7(17.9)
923.2 6	0.13 6	²⁰⁷ Rn(9.25 m)	344.53(46), 747.15(14.2), 402.68(11.9)
• 923.267 19	0.307 10	¹⁵⁰ Eu(35.8 y)	333.971(96), 439.401(80.4), 584.274(52.6)
• 923.267 19	>0.31	¹⁵⁰ Eu(35.8 y)	333.971(96), 439.401(80.4), 584.274(52.6)
923.29 20	8.1 8	⁵⁴ V(49.8 s)	834.848(97.1), 989.01(80.1), 2259.35(45.6)
923.3 5	0.00018 3	¹⁰⁴ Rh(4.34 m)	555.796(0.13), 767.72(0.0065), 1237.2(0.0042)
923.3 5	6.9 9	¹⁰⁴ Ag(69.2 m)	555.796(92.6), 767.72(65.7), 941.7(25.0)
923.3 1	0.04 1	¹⁰⁷ Tc(21.2 s)	102.70(21.0), 177.00(9.2), 106.31(7.6)
923.37 13	0.020 3	¹⁵¹ Tb(17.609 h)	287.357(28.3), 251.863(26.3), 108.088(24.3)
923.39 22	0.95 10	¹⁸⁴ Au(53.0 s)	162.97(50), 272.98(40), 362.47(17.5)
• 923.4 2	0.15 3	¹³¹ Te(30 h)	773.67(49.9), 852.21(27.0), 793.75(18.10)
923.4 3	1.33 13	¹³⁹ Nd(29.7 m)	405.12(7), 1074.2(2.5), 669.0(1.52)
923.4 3	1.3 3	¹⁵⁷ Tm(3.63 m)	455.00(9.3), 385.5(8.8), 348.40(8.4)
923.5 2	10	¹⁰² In(24 s)	776.6(100), 861.1(96), 593.1(30)
923.59 5	0.013 6	¹⁸³ Os(13.0 h)	381.768(89.6), 114.463(20.63), 167.844(8.81)
923.7 4	0.0062 25	¹⁶⁷ Yb(17.5 m)	113.34(55.3), 106.18(22.5), 176.25(21)
923.8		¹³⁰ Pr(40.0 s)	951.9, 499.0, 1405
• 923.87 2	0.721 9	¹³¹ Ba(11.50 d)	496.326(47), 123.805(28.97), 216.078(19.66)
923.874 23	0.101 8	¹⁴⁹ Nd(1.728 h)	211.309(25.9), 114.314(19.2), 270.166(10.7)
923.9 7	6.2 7	¹¹⁷ Te(62 m)	719.7(65), 1716.4(15.9), 2300.0(11.2)
923.9 1	0.0075 6	¹²⁷ Cs(6.25 h)	411.95(62.8), 124.70(11.37), 462.31(5.07)
923.9 2	0.0225 12	¹³³ La(3.912 h)	278.835(2.50), 302.353(1.648), 290.06(1.413)
923.94 8	0.7	¹⁷⁶ Ta(8.09 h)	1159.28(25), 88.34(12), 1224.93(6)
923.96 20	0.43 3	²⁰⁸ At(1.63 h)	686.527(98), 660.040(89), 177.595(48.6)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
• 923.98 2	2.86 9	²³⁸ Np(2.117 d)	984.45(27.8), 1028.54(20.3), 1025.87(9.6)
924 1		⁷⁷ Ge(11.30 h)	264.44(54), 211.03(30.8), 215.50(28.6)
924.0 5	0.037 16	¹⁰⁷ Ru(3.75 m)	194.05(9.9), 847.93(5.3), 462.61(3.66)
924.0 3	0.41 6	¹⁴⁹ Dy(4.20 m)	100.8(15.2), 789.4(11.8), 1776.3(11.1)
924.0 4	1.21 20	¹⁵³ Ho(2.0 m)	295.8(67), 637.0(5.36), 688.5(3.7)
924.0 10	0.27 5	²⁰¹ Bi(108 m)	629.1(24.0), 936.2(11.3), 1014.1(10.7)
• 924	0.05	²³⁸ Np(2.117 d)	984.45(27.8), 1028.54(20.3), 1025.87(9.6)
924.04 30		¹⁹¹ Au(3.18 h)	586.45(17), 277.88(7.2), 674.19(6.8)
924.07 9	0.071 16	²⁰⁴ Bi(11.22 h)	899.15(98), 374.72(82), 984.02(59)
924.1 2	†0.7 2	¹⁷² Ir(2.0 s)	227.8(†100.0), 378.4(†62.0), 448.4(†40.5)
924.12 16	0.73 6	¹⁸⁶ Ir(2.0 h)	137.155(27), 767.508(21.2), 630.354(18.0)
• 924.12 5	2.41 16	²⁵² Es(471.7 d)	785.09(18.3), 139.03(13.9), 102.32(1.88)
924.21 11	0.0119 17	¹⁶⁶ Tm(7.70 h)	778.817(18.9), 2052.36(17.2), 184.410(16.1)
924.22 18	0.142 4	⁷² Ga(14.10 h)	834.01(96), 2201.69(25.9), 629.95(24.8)
924.3 5	0.0098 20	⁶³ Zn(38.47 m)	669.62(8), 962.06(6.5), 1412.08(0.75)
• 924.4 9	0.51 7	¹²⁷ Sb(3.85 d)	685.7(37), 473.0(25.7), 783.7(15.0)
924.4	0.015 15	¹⁵¹ Nd(12.44 m)	116.80(43.4), 255.68(16.4), 1180.89(14.8)
924.4 4	0.34 4	¹⁸⁷ Au(8.4 m)	1331.81(7.0), 1408.23(3.06), 914.73(3.02)
• 924.5 20	>6.0×10 ⁻⁵	¹²⁹ Te(33.6 d)	695.88(2.988), 729.57(0.70), 556.65(0.118)
924.5 6	0.162 11	¹³⁹ Xe(39.68 s)	218.59(56), 296.53(21.7), 174.97(11.3)
924.5 4	3.5 17	¹⁵² Ho(161.8 s)	613.8(73), 613.8(14), 1098.0(12)
924.54 8	†4.02 11	⁷¹ Se(4.74 m)	147.50(†211), 1095.26(†43.6), 830.33(†43.2)
• 924.55 3	0.0623 21	¹⁵⁴ Eu(8.593 y)	123.071(40.79), 1274.436(35.19), 723.304(20.22)
924.55 3	1.41 14	¹⁵⁴ Tb(9.4 h)	123.071(30), 247.925(22.1), 540.18(20)
924.55 3	>0.07	¹⁵⁴ Tb(21.5 h)	123.071(26), 1274.436(10.5), 2187.10(9.9)
924.55 3	0.35	¹⁵⁴ Tb(22.7 h)	247.925(79), 346.643(69), 1419.81(46)
924.55 12	0.00188 20	¹⁶¹ Gd(3.66 m)	360.94(0.59), 314.92(22.7), 102.315(13.9)
924.58 4	7.45 25	¹⁴⁶ La(6.27 s)	258.47(64), 702.28(6.43), 666.07(6.18)
924.6 5	0.2	²⁰³ Bi(11.76 h)	820.3(30), 825.2(14.6), 896.9(13)
924.63 8	1.63 8	⁸⁵ Br(2.90 m)	802.41(2.56), 919.06(0.65), 1727.02(0.381)
924.7 3	7	¹⁰¹ Cd(1.2 m)	98.0(47), 1722.5(11), 1259.3(8)
924.7 7	0.12 6	¹⁰³ Cd(7.3 m)	1461.81(12), 1448.70(5.55), 1079.90(5.44)
924.7 1	2.3 3	¹⁴¹ Sm(22.6 m)	196.88(74), 431.6(40.4), 777.6(20.3)
• 924.75 3	0.315 8	¹⁴⁸ Eu(54.5 d)	550.284(98.5), 629.987(71.9), 611.293(20.5)
924.76 7	0.279 22	¹⁸⁹ Pt(10.87 h)	721.41(9.3), 94.33(7.6), 568.84(7.1)
924.8 6	†11 5	¹¹² Te(2.0 m)	372.70(†100), 296.20(†86), 418.9(†57)
924.8		¹³⁵ Ce(17.7 h)	265.56(41.8), 300.07(23.5), 606.76(18.8)
924.9 1	0.33 4	¹⁰⁷ Tc(21.2 s)	102.70(21.0), 177.00(9.2), 106.31(7.6)
924.9 4	2.3 5	¹⁴⁸ Er(4.6 s)	1311.8(8.9), 244.0(7.1), 315.3(6.9)
924.96 8	0.076 6	¹³⁹ Cs(9.27 m)	1283.23(8.3), 627.24(1.78), 1420.66(0.91)
925.0 1	0.226 17	⁹⁴ Rb(2.702 s)	1309.1(87), 836.9(87.10), 1577.5(31.8)
925.0 3	9	¹²⁸ Cd(0.34 s)	247.92(75), 857.05(71), 68.02(29)
925	†19 3	¹⁶⁰ Eu(38 s)	173.19(†100), 513.6(†60), 412.56(†56)
925.0	0.31	¹⁸⁵ Ir(14.4 h)	254.4(13.3), 1828.8(10), 60.0(5.7)
925.0 1	7.8 5	²³⁴ Pa(6.70 h)	131.30(18), 946.00(13.4), 883.24(9.6)
925.0 3	0.009 3	²⁴⁶ Am(25.0 m)	1078.86(27.7), 798.80(25), 1062.04(17.1)
925.04 15	1.44 12	¹⁴⁰ Xe(13.60 s)	805.52(20), 1413.66(12.2), 1315.05(8.2)
925.04 3	4.98 5	¹⁴³ Ba(14.33 s)	211.475(25), 798.79(15.6), 980.45(11.55)
925.1 5	0.24 4	¹²⁴ Cs(30.8 s)	353.9(40), 914.8(4.0), 492.6(3.6)
925.1	0.51	¹⁴⁷ Ba(0.893 s)	167.4(11), 105.2(4.8), 196.1(4.8)
• 925.189 21	6.90 7	¹⁴⁰ La(1.6781 d)	1596.210(95), 487.021(45.5), 815.772(23.28)
925.189 21	0.0260 25	¹⁴⁰ Pr(3.39 m)	1596.210(0.50), 306.9(0.151), 751.637(0.032)
925.2 3	†2.3 6	¹⁷¹ Hf(12.1 h)	122.0(†100), 662.2(†83), 347.18(†47)
925.2 7	0.12 4	¹⁷⁵ Ta(10.5 h)	207.4(14.0), 348.5(12.0), 266.9(10.8)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
925.22 5	0.0127 8	¹⁹⁴ Ir(19.15 h)	328.455(13.1), 293.545(2.55), 645.157(1.17)
• 925.22 5	0.288 24	¹⁹⁴ Au(38.02 h)	328.455(60), 293.545(10.2), 1468.91(6.3)
925.24 5	4.56 8	¹²⁶ Cs(1.64 m)	388.633(41), 491.243(5.0), 879.876(1.29)
925.29 23	0.090 18	¹⁶⁷ Lu(51.5 m)	29.66(14.4), 239.22(8.6), 213.19(3.6)
925.3 3	69 14	¹⁴⁶ Ho(3.6 s)	682.9(100), 673.7(55), 237.2(52)
925.4 3	32	¹⁰⁹ Sb(17.0 s)	1062.8(23.9), 664.5(20.1), 1495.8(9.6)
925.4 4	0.014 5	¹⁵⁵ Dy(9.9 h)	226.918(68.4), 184.564(3.37), 1089.8(>2.8)
925.4 10	0.017 9	²⁴⁵ Pu(10.5 h)	327.428(25.4), 560.13(5.4), 308.222(4.9)
925.47 20	0.72 8	⁷⁷ Ge(11.30 h)	264.44(54), 211.03(30.8), 215.50(28.6)
925.47 20	0.064 7	⁷⁷ Ge(11.30 h)	264.44(54), 211.03(30.8), 215.50(28.6)
925.49 9	0.222 16	⁹⁰ Kr(32.32 s)	1118.69(39.0), 121.82(35.5), 539.49(30.8)
925.5 2	†2.2 6	¹⁰³ Nb(1.5 s)	102.64(†100), 641.1(†55), 538.5(†34.0)
925.5 4	0.045 9	¹²⁰ Xe(40 m)	25.1(30), 72.6(9), 178.1(6.8)
925.5 1	0.030 15	¹⁵¹ Nd(12.44 m)	116.80(43.4), 255.68(16.4), 1180.89(14.8)
925.5 1	0.1184 15	¹⁵¹ Nd(12.44 m)	116.80(43.4), 255.68(16.4), 1180.89(14.8)
• 925.51 6	0.121 6	¹⁵³ Tb(2.34 d)	212.038(31.0), 170.504(6.8), 109.758(6.4)
925.55 7	1.45 17	¹³⁴ Te(41.8 m)	767.20(29.0), 210.465(22.3), 277.951(20.9)
925.57 7	87 6	¹²¹ In(23.1 s)	261.96(7.9), 657.32(7.1), 919.28(4.2)
925.6 3	0.34 4	⁶¹ Fe(5.98 m)	1205.07(44), 1027.42(42.7), 297.90(22.2)
925.62 7	0.10 3	¹⁵⁸ Eu(45.9 m)	944.09(25), 977.131(13.6), 79.5104(11)
• 925.62 7	0.044 5	¹⁵⁸ Tb(180 y)	944.09(44), 962.06(20.3), 79.5104(11.6)
925.68 5	1.68 6	⁵⁸ Mn(65.3 s)	810.764(<0.026), 1323.09(6.44), 459.160(21.4)
925.7 4	†10.4 20	¹³⁷ Te(2.49 s)	243.3(†100), 554.0(†34), 469.1(†21)
925.74 39	0.10 3	¹⁴¹ Xe(1.73 s)	909.23(24.0), 118.705(16.1), 105.937(9.8)
• 925.78 3	0.0378 10	¹⁷¹ Lu(8.24 d)	739.78(47.8), 19.394(13.7), 667.404(11.04)
925.8 2	3.84 3	⁹¹ Sr(9.63 h)	1024.3(33), 749.8(23.61), 652.9(8.0)
925.8 4	0.74 15	¹⁰⁹ In(4.2 h)	203.5(74), 623.7(5.5), 1148.9(4.3)
925.8 2	†36	¹²⁰ Ag(0.32 s)	697.8(†51), 505.9(†51), 830.0(†15)
925.8 4	1.2 3	¹²⁰ In(46.2 s)	1171.3(96), 1023.1(55), 863.7(32.5)
925.8 10	†2.1 7	¹⁹¹ Tl(5.22 m)	452.6(†100), 470.1(†98), 391.6(†96)
925.8 2	1.08 5	²²⁸ Fr(39 s)	473.7(10.2), 474.0(7.6), 410.40(6.3)
925.90 15	7.3 8	¹³⁷ Nd(38.5 m)	75.5(17.0), 580.6(13), 306.60(10.0)
925.9 2	1.8 12	²³⁴ Pa(6.70 h)	131.30(18), 946.00(13.4), 883.24(9.6)
926.0 5	0.4 2	¹³⁰ Sb(39.5 m)	793.53(100), 839.49(100), 331.05(78)
926 1	0.19 6	¹³³ Te(12.5 m)	312.072(62), 407.63(27.1), 1333.21(10.67)
926.0 6	0.034 6	¹³⁹ Xe(39.68 s)	218.59(56), 296.53(21.7), 174.97(11.3)
926.0 5	0.46 6	¹⁵¹ Dy(17.9 m)	386.10(19.4), 49.46(18.0), 546.31(14.3)
926.0 5	†0.073 21	¹⁹⁶ Ir(1.40 h)	393.346(†105.2), 521.175(†104), 447.1(†102.1)
• 926.1 5	0.0040 7	¹⁵¹ Pm(28.40 h)	340.08(23), 167.75(8.3), 275.21(6.8)
926.2 1	12.5 15	¹⁰⁴ Ag(69.2 m)	555.796(92.6), 767.72(65.7), 941.7(25.0)
926.2	3.0 15	¹³² Sb(4.10 m)	696.8(100), 973.9(100), 150.6(66)
• 926.26 13	3.41 3	¹⁵⁶ Tb(5.35 d)	534.318(66.6), 199.2132(40.9), 1222.36(31.00)
926.28 9	0.13 3	¹⁸³ Os(9.9 h)	1101.94(49.0), 1107.92(22.36), 1034.85(6.02)
926.3 2	0.09	¹⁴⁰ Sm(14.82 m)	225.5(>10), 225.4(10), 140.0(5.0)
926.3 2	1.33 11	²⁰⁴ At(9.2 m)	684.341(95), 516.318(90), 426.253(67.5)
926.31 25	0.105 21	¹⁸⁷ Au(8.4 m)	1331.81(7.0), 1408.23(3.06), 914.73(3.02)
926.324 15	0.28 3	¹⁵² Pm(4.1 m)	121.7824(15.7), 841.586(2.17), 961.06(1.92)
• 926.324 15	0.265 8	¹⁵² Eu(13.542 y)	121.7824(28.4), 1408.011(20.87), 964.131(14.34)
926.35 13	0.0338 12	¹³⁷ Ce(9.0 h)	447.15(1.8), 10.6(0.8), 436.59(0.265)
926.39 17	†2.6 4	¹⁸⁹ Hg(7.6 m)	320.99(†100), 78.21(†63), 565.42(†48)
• 926.40 15	0.260 8	¹⁷⁰ Lu(2.00 d)	84.2551(4.256), 1280.25(3.450), 2041.88(1.434)
926.5 1	†1.26 10	¹²⁹ Ba(2.17 h)	182.30(†100), 1459.1(†50.0), 202.38(†33.7)
926.5 3	0.021 7	¹⁵³ Dy(6.4 h)	80.723(11.10), 213.754(10.90), 99.659(10.51)
926.5 3	†1.89 20	²⁰¹ Po(15.3 m)	890.1(†100), 240.1(†71.0), 904.2(†54.8)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
926.5 1	0.94 23	²⁰⁶ Fr(15.9 s)	575.3(12), 559.0(8.19), 628.6(3.6)
926.5 2	0.090 21	²²⁴ Fr(3.30 m)	215.985(33.1), 131.613(16.3), 836.90(9.8)
926.53 10		¹¹⁸ Ag(2.0 s)	487.77(57), 677.13(53), 1058.39(14.8)
926.6 2	0.55 8	¹⁴³ Gd(112 s)	271.94(84), 588.00(15.7), 798.89(10.7)
• 926.6 5	0.023 12	¹⁶⁹ Lu(34.06 h)	960.622(23.4), 191.2137(20.6), 1449.74(9.92)
926.6 3	†2.3 10	¹⁹² Bi(37 s)	853.8(†100.0), 501.8(†80), 504.3(†39)
926.70 10	0.0043 11	⁷³ Se(7.15 h)	360.80(108), 67.03(78), 865.09(0.584)
926.7 2	0.60 11	¹⁶⁰ Tm(74.5 s)	264.1(9), 125.8(6.5), 375.8(2.4)
926.72 10	7.2 9	²³⁴ Pa(6.70 h)	131.30(18), 946.00(13.4), 883.24(9.6)
926.72 10	†1.23×10 ⁻³	²³⁴ Pa(1.17 m)	1001.03(†837000), 766.38(†294000), 742.81(†80000)
• 926.72 10	0.068 7	²³⁴ Np(4.4 d)	1558.31(18.72), 1527.21(11.2), 1601.80(9.1)
• 926.72 10	5.8×10 ⁻⁷	²³⁸ Pu(87.74 y)	43.498(0.0395), 99.853(0.00735), 152.720(0.000937)
926.8 3	0.25 3	¹⁸¹ Au(11.4 s)	198.60(4.4), 2022.4(4.2), 79.40(4.2)
926.84 5	7.6 8	⁷⁷ Zn(2.08 s)	189.49(28.1), 473.94(19.7), 1832.0(12.4)
926.9 3	0.39 10	¹¹⁹ Ag(2.1 s)	626.4(13), 366.2(12.1), 399.1(10.9)
926.97 9	1.23 3	¹⁹⁴ Pb(12.0 m)	581.82(18.8), 1519.45(16.4), 203.82(16.2)
• 926.98 10	0.47 3	¹⁵⁶ Tb(5.35 d)	534.318(66.6), 199.2132(40.9), 1222.36(31.00)
927 1	0.00165 12	²²³ Fr(21.8 m)	50.13(36.0), 79.72(9.1), 234.81(3.0)
• 927 1	†0.00044	²²⁷ Th(18.72 d)	235.971(†813), 50.13(†528), 256.25(†463)
927.05 10	0.92 5	⁷⁶ Ga(32.6 s)	562.93(66), 545.51(26.0), 1108.41(15.8)
927.09 14	0.98 10	²⁰⁶ At(30.0 m)	700.66(98), 477.10(86), 395.54(48)
927.1 8	0.0041 18	¹⁶⁷ Yb(17.5 m)	113.34(55.3), 106.18(22.5), 176.25(21)
927.13 30	0.17	¹³⁷ I(24.5 s)	1218.00(12.8), 601.05(4.80), 1302.64(4.42)
927.18 6	0.076 11	⁶⁹ As(15.2 m)	232.69(11), 145.95(4.96), 86.78(3.44)
927.2 2	†6.6 5	⁷⁵ Ga(126 s)	253.0(†100), 574.8(†31.6), 885.6(†11.1)
927.2 3	1.00 23	⁷⁸ Ga(5.09 s)	619.40(77), 1186.42(20.1), 567.06(18.2)
927.2 2	0.011 3	¹¹⁹ I(19.1 m)	257.52(87), 635.86(2.69), 320.53(2.17)
927.2 15	0.039 11	¹⁷⁷ Yb(1.911 h)	150.392(20.3), 1080.21(5.6), 1241.2(3.47)
927.29 4	7.1 4	²⁰² Bi(1.72 h)	960.67(99), 422.18(83.7), 657.49(60.6)
927.30 10	0.88 4	⁸³ Y(7.08 m)	35.50(0.44), 882.1(6.30), 489.90(5.53)
927.40 13	0.032 4	¹³¹ La(59 m)	108.081(25.0), 417.783(18.0), 365.162(16.9)
927.4 3	0.41 4	¹³² I(2.295 h)	667.718(99), 772.60(75.6), 954.55(17.6)
927.5 4	0.35 12	¹⁵⁴ Tb(9.4 h)	123.071(30), 247.925(22.1), 540.18(20)
927.5 4	0.26 10	¹⁵⁴ Tb(22.7 h)	247.925(79), 346.643(69), 1419.81(46)
927.58 20	0.25 6	¹⁸⁶ Au(10.7 m)	191.56(62), 298.67(25.4), 764.89(10.5)
927.60 10	3.79 22	⁹¹ Tc(3.3 m)	502.90(51.4), 1328.40(2.55), 1362.00(2.5)
927.6 3	2.0 3	¹⁰⁴ In(1.8 m)	658.0(100), 834.1(99), 878.1(29.4)
927.60 20	0.701 19	¹¹² Sb(51.4 s)	1257.05(96), 990.70(14.3), 670.0(3.7)
927.6 2	0.166 25	¹⁴⁶ La(6.27 s)	258.47(64), 924.58(7.45), 702.28(6.43)
927.6 2	0.131 9	²⁰⁸ Tl(3.053 m)	2614.533(99), 583.191(84.5), 510.77(22.6)
927.67 8	1.16 22	¹³³ Sb(2.5 m)	1096.22(43.0), 817.8(18.5), 2755(12.5)
927.69 8	0.63 5	⁹³ Sr(7.423 m)	590.238(67), 875.73(24.1), 888.13(21.8)
927.75 3	0.50 6	¹³³ Te(12.5 m)	312.072(62), 407.63(27.1), 1333.21(10.67)
927.8 7	0.20	²⁰³ Bi(11.76 h)	820.3(30), 825.2(14.6), 896.9(13)
927.9 8	0.38 19	¹¹⁶ Cs(3.84 s)	393.5(<0.09), 524.3(76), 615.1(30.4)
927.90 20	0.37 4	¹⁹⁵ Tl(1.16 h)	563.52(10.5), 884.47(10.0), 1363.88(8.4)
• 927.9920 7	0.619 7	¹⁸² Ta(114.43 d)	67.75001(41.2), 1121.3007(34.9), 1221.4066(26.98)
927.9920 7	0.52 5	¹⁸² Re(12.7 h)	67.75001(38.2), 1121.3007(32), 1221.4066(24.8)
• 927.9920 7	0.37 4	¹⁸² Re(64.0 h)	229.3220(26), 67.75001(22.2), 1121.3007(22.0)
928.0 10	0.22 8	⁸³ Se(22.3 m)	356.687(70), 510.17(43), 224.8(32.7)
928.0 4	0.13 4	⁹² Kr(1.840 s)	142.307(64), 1218.6(60), 812.6(14.6)
• 928.0 4	0.0021 9	¹²⁴ I(4.18 d)	602.730(60), 1690.980(10.41), 722.786(9.98)
928 1	0.12 6	¹³³ Te(12.5 m)	312.072(62), 407.63(27.1), 1333.21(10.67)
• 928.0	0.022	¹⁴⁶ Eu(4.59 d)	747.2(98), 633.03(43), 634.07(37)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
928.02 16	3.9 6	¹⁹⁵ Pb(15.0 m)	383.64(106.9), 394.21(44), 878.40(24.2)
928.06 11	0.138 20	¹⁶³ Tm(1.810 h)	104.320(18.6), 69.229(11.6), 241.305(10.9)
928.10 28	1.00 6	⁹⁹ Nb(2.6 m)	97.785(7), 253.50(3.64), 2641.3(3.64)
928.1 3	0.25 5	¹¹⁸ Cs(14 s)	337.4(100), 472.8(37.4), 586.6(15.4)
928.1 4	0.168 11	¹⁴⁶ Pr(24.15 m)	453.88(48.0), 1523.7(15.6), 735.72(7.5)
928.18 4	0.006	²³⁹ U(23.45 m)	74.664(48), 43.533(4.14), 662.24(0.18)
• 928.290 11	0.77 5	⁴⁸ V(15.9735 d)	983.517(99.98), 1312.096(97.5), 944.104(7.76)
928.3 2	1.66 15	⁹³ Ru(10.8 s)	1396.2(39), 1111.2(26.2), 2039.1(9.2)
928.30 6	1.3 3	¹²⁶ Sb(19.15 m)	414.81(86), 666.331(86), 695.03(82)
928.34 3	2.5 1	¹⁰⁰ Nb(1.5 s)	535.60(45.7), 528.24(9.1), 159.547(8.8)
928.34 3	7.1 19	¹⁰⁰ Nb(2.99 s)	535.60(97.0), 600.5(65.0), 1280.6(23.8)
928.4 4	†11 5	¹¹² Te(2.0 m)	372.70(†100), 296.20(†86), 418.9(†57)
928.40 10	1.07 16	¹²⁵ Cd(0.57 s)	1027.53(25.8), 1173.16(25.1), 736.65(12.6)
928.4 2	2.9 8	¹²⁹ Sn(6.9 m)	1161.31(56.0), 1128.44(50), 760.8(16.8)
• 928.4	0.0046 21	¹⁵⁴ Eu(8.593 y)	123.071(40.79), 1274.436(35.19), 723.304(20.22)
928.42 14	0.00129 20	¹⁶¹ Gd(3.66 m)	360.94(0.59), 314.92(22.7), 102.315(13.9)
928.5 3	0.044 11	¹⁵³ Dy(6.4 h)	80.723(11.10), 213.754(10.90), 99.659(10.51)
928.5 10	†3.1	¹⁷⁷ Os(2.8 m)	84.7(†100), 125.4(†63), 195.8(†61)
928.5 3	0.32 5	¹⁸¹ Au(11.4 s)	198.60(4.4), 2022.4(4.2), 79.40(4.2)
928.5 1	1.41 9	¹⁸⁸ Tl(71 s)	412.7(88), 592.0(61), 504.2(23.3)
928.535 21	0.718 21	¹⁵⁵ Dy(9.9 h)	226.918(68.4), 184.564(3.37), 1089.8(>2.8)
928.55 10	0.150 20	²⁴⁰ Np(7.22 m)	554.60(20.9), 597.40(11.7), 1496.9(1.33)
928.6 1	6.9 4	⁵¹ Ti(5.76 m)	320.0842(93), 608.6(1.18)
928.6 2	0.127 11	¹⁰¹ Tc(14.22 m)	306.85(88), 545.06(6.0), 127.23(2.86)
928.6 1	0.272 25	¹²⁹ La(11.6 m)	278.6(25), 110.5(16.9), 457.0(8.0)
928.6 4	0.10 5	¹⁸⁵ Au(4.25 m)	310.6(13), 243.1(6.6), 77.7(6)
928.7 6	0.29 5	¹¹⁷ Cs(8.4 s)	204.8(15.0), 29.7(9.9), 205.6(6.8)
928.7 2	†10.8 17	¹⁵² Tb(17.5 h)	344.281(†1500), 586.294(†223), 271.135(†203)
928.7 4	0.07 3	¹⁶⁴ Yb(75.8 m)	40.928(1.147), 675.41(0.38), 390.6(0.31)
928.7 3	†2.8 10	¹⁹² Bi(37 s)	853.8(†100.0), 501.8(†80), 504.3(†39)
928.80 20	0.033 19	¹⁰⁵ Cd(55.5 m)	961.84(4.69), 346.870(4.20), 1302.459(3.98)
928.8 6	0.77 4	¹¹⁹ Cd(2.69 m)	292.9(36.8), 343.0(16.9), 1609.7(10.9)
• 928.8 4	0.028 5	¹⁵⁶ Eu(15.19 d)	811.79(9.70), 88.9667(8.4), 1230.68(7.98)
• 928.8	†6×10 ⁰² 3	²⁴¹ Am(432.2 y)	59.537(†60), 26.345(†1000×10 ⁹), 33.195(†6000×10 ⁸)
928.85 3	1.046 22	⁷⁷ Ge(11.30 h)	264.44(54), 211.03(30.8), 215.50(28.6)
928.86 9	7.5 7	⁸⁰ Zn(0.545 s)	712.53(45.1), 715.40(33.8), 964.93(15.6)
928.9 1	†1.24×10 ³	¹⁵⁷ Ho(12.6 m)	279.97(†47600), 341.16(†37000), 193.41(†15200)
928.9 2	0.37 6	¹⁸³ Au(42.0 s)	161.18(9.4), 214.13(5.9), 313.08(5.0)
928.935 5	0.036 5	¹⁶⁸ Ho(2.99 m)	741.356(36.6), 821.164(34.5), 815.990(18.6)
• 928.935 5	0.0613 16	¹⁶⁸ Tm(93.1 d)	198.241(52.39), 815.990(48.99), 447.515(23.05)
• 929.01 7	20.2 8	¹⁴⁷ Gd(38.06 h)	229.32(63), 396.00(34.3), 370.0(17.2)
929.04 9	0.42 3	⁹³ Rb(5.84 s)	432.61(17.4), 986.05(6.8), 213.429(6.7)
929.04 9	†2.6×10 ²	⁹⁴ Rb(2.702 s)	432.61(†9000), 213.429(†6000), 986.05(†4100)
929.08 5	0.138 8	¹²⁶ Cs(1.64 m)	388.633(41), 491.243(5.0), 925.24(4.56)
929.08 87	0.028 11	¹⁷⁴ Ta(1.05 h)	206.50(58), 91.00(16.0), 1205.92(4.9)
929.1 3	†8.0 10	¹¹³ I(6.6 s)	462.5(†100), 622.4(†74), 351.5(†43)
929.1 3	0.083 25	¹⁵² Pm(4.1 m)	121.7824(15.7), 841.586(2.17), 961.06(1.92)
929.1 2	†0.7 2	¹⁶⁰ Lu(36.1 s)	243.2(†100), 395.4(†21.0), 577.2(†10.7)
• 929.106 20	3.04 7	¹⁷² Lu(6.70 d)	1093.657(62.5), 900.724(29.8), 181.528(20.6)
• 929.12 21	0.016 4	¹⁰⁵ Ag(41.29 d)	344.520(41), 280.41(30.2), 644.55(11.1)
929.12 21	4000 18	¹⁰⁵ Ag(7.23 m)	319.14(†63000), 306.25(†12800), 442.37(†5900)
929.16 30		¹⁹¹ Au(3.18 h)	586.45(17), 277.88(7.2), 674.19(6.8)
929.18 6	0.266 14	¹³⁹ Cs(9.27 m)	1283.23(8.3), 627.24(1.78), 1420.66(0.91)
929.20 15	2.9 4	¹³⁷ Nd(38.5 m)	75.5(17.0), 580.6(13), 306.60(10.0)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
929.2	>0.010	¹⁴⁹ Nd(1.728 h)	211.309(25.9), 114.314(19.2), 270.166(10.7)
929.25 20	0.18 4	¹⁶² Tm(21.70 m)	102.00(17.5), 798.68(8.4), 227.52(7)
929.3 1	0.79 13	¹¹⁷ Cd(3.36 h)	1997.33(26), 1065.98(23.1), 564.397(14.7)
929.3 3	9.5 10	¹¹⁸ I(8.5 m)	605.71(99), 600.71(92), 614.42(65)
929.36 6	0.0051 6	¹⁷³ Hf(23.6 h)	123.672(83), 296.974(33.9), 139.634(12.7)
• 929.38 32	0.0028 9	⁷⁷ Br(57.036 h)	238.996(23), 520.639(22.4), 297.215(4.16)
929.4 3	0.10 7	²⁵⁰ Es(2.22 h)	989.12(13.3), 1031.85(10.6), 828.82(5.5)
929.42 20	0.135 17	¹⁰³ Tc(54.2 s)	346.380(17.5), 136.079(16.6), 562.90(7.0)
• 929.45 4	0.0119 10	¹⁷¹ Lu(8.24 d)	739.78(47.8), 19.394(13.7), 667.404(11.04)
929.47 2	1.233 18	²⁵⁰ Bk(3.217 h)	989.12(45), 1031.85(35.6), 1028.65(4.91)
929.47 2	0.136 19	²⁵⁰ Es(8.6 h)	828.82(72), 303.41(21.6), 349.4(19.8)
929.5 2	100	⁵² Fe(45.9 s)	869.9(93), 621.7(51), 2037.6(50)
929.5	0.75 4	¹⁴¹ Ba(18.27 m)	190.328(46.0), 304.194(25.4), 276.948(23.4)
929.6	56 5	³⁴ Al(60 ms)	3327.5(60), 125.4(25.8), 4257.0(12.0)
929.6 5	0.61 12	¹²⁶ Ba(100 m)	233.6(19.6), 257.6(7.6), 241.0(6.0)
929.61 14	0.54 4	²⁰⁵ At(26.2 m)	719.30(31), 669.41(8.6), 628.88(5.6)
929.68 5	0.198 15	¹³² La(4.8 h)	464.55(76), 567.14(15.7), 1909.91(9.0)
929.7 4	0.35 4	¹²⁷ Sn(2.10 h)	1114.3(39), 1095.6(20), 823.1(10.9)
929.7 2	0.08 2	²⁴¹ Np(13.9 m)	174.94(3.1), 132.99(0.86), 518.8(0.40)
929.73 8	0.038 11	¹⁸⁹ Pt(10.87 h)	721.41(9.3), 94.33(7.6), 568.84(7.1)
929.8 4	0.0109 13	¹⁴⁹ Nd(1.728 h)	211.309(25.9), 114.314(19.2), 270.166(10.7)
• 929.8 5	0.012 6	¹⁵³ Tb(2.34 d)	212.038(31.0), 170.504(6.8), 109.758(6.4)
929.83 11	0.031 3	¹⁵¹ Tb(17.609 h)	287.357(28.3), 251.863(26.3), 108.088(24.3)
• 929.85 3	1.22 22	¹⁴⁸ Eu(54.5 d)	550.284(98.5), 629.987(71.9), 611.293(20.5)
929.93 2	0.75 3	²¹⁰ At(8.1 h)	1181.39(99.3), 245.31(79), 1483.39(46.5)
• 930.0 2	0.050 4	⁸³ Sr(32.41 h)	762.65(30), 381.53(14.1), 418.37(4.41)
• 930.0 4	0.025 15	¹³¹ Te(30 h)	773.67(49.9), 852.21(27.0), 793.75(18.10)
930.0 3	†2.3 6	¹³¹ Pr(1.53 m)	266.13(†100), 72.82(†64), 387.56(†38)
930.0 2	0.99 20	¹³² Sb(2.79 m)	973.9(99), 696.8(86), 989.6(14.9)
930.0 3	1.34 10	¹⁴⁸ Ho(9.59 s)	1687.5(82.47), 660.8(58.94), 504.3(18.62)
930.0 5	0.083 12	²⁰⁸ Rn(24.35 m)	426.78(7.07), 251.05(5.02), 350.026(3.34)
930.09 15	0.0054 11	⁷³ Se(7.15 h)	360.80(108), 67.03(78), 865.09(0.584)
930.1 4	3.3 10	⁹⁹ Y(1.470 s)	121.761(33), 724.30(14.9), 536.2(6.6)
930.1 3	0.91 15	¹³⁹ Sm(2.57 m)	273.7(37), 306.7(28.5), 596.3(8.0)
930.2 15	0.19 13	¹¹⁷ Te(62 m)	719.7(65), 1716.4(15.9), 2300.0(11.2)
930.2 2	†3.6 10	¹³¹ Ce(10.3 m)	169.42(†100), 414.25(†68), 119.18(†44)
• 930.2 2	0.00059 9	¹⁴⁹ Pm(53.08 h)	285.95(3.1), 859.46(0.109), 590.88(0.069)
930.26 20	0.028 11	⁶⁶ Ge(2.26 h)	43.89(28.7), 381.85(28), 272.97(10.4)
930.3 1	0.26 4	¹⁰⁹ In(4.2 h)	203.5(74), 623.7(5.5), 1148.9(4.3)
930.3 3	†2.4 5	¹⁴² Xe(1.22 s)	571.83(†100), 657.05(†79), 538.24(†77)
930.3 6	0.051 25	²⁴⁵ Pu(10.5 h)	327.428(25.4), 560.13(5.4), 308.222(4.9)
930.38 8	0.51	¹⁵⁴ Pm(1.73 m)	2057.76(17.1), 1393.9(14.4), 81.99(12.6)
930.38 8	5.4	¹⁵⁴ Pm(2.68 m)	184.810(32), 81.99(15.4), 546.66(14.5)
• 930.39 11	0.020 5	¹⁴⁶ Eu(4.59 d)	747.2(98), 633.03(43), 634.07(37)
930.4	0.015 4	³⁵ Ar(1.775 s)	1219.42(1.35), 1763.10(0.312), 2693.5(0.1480)
930.4 4	0.22 3	¹²⁰ Xe(40 m)	25.1(30), 72.6(9), 178.1(6.8)
930.4 5	0.022 5	¹⁴³ Ba(14.33 s)	211.475(25), 798.79(15.6), 980.45(11.55)
930.4 5	0.044 15	¹⁵¹ Nd(12.44 m)	116.80(43.4), 255.68(16.4), 1180.89(14.8)
930.42 9	5.1 3	¹⁵⁶ Tm(83.8 s)	344.55(86), 452.85(17.2), 585.93(14.6)
930.5 2	0.046 5	⁷⁹ Rb(22.9 m)	688.1(23), 182.77(19.2), 143.41(13.9)
930.5 3	0.32 5	¹⁰¹ Ag(11.1 m)	261.0(53), 588.0(10.0), 667.3(9.8)
• 930.5 3	†0.031 21	¹⁰² Rh(207 d)	475.070(†47), 628.05(†4.6), 1103.16(†2.99)
930.5 5	0.019 5	²¹⁴ Bi(19.9 m)	609.312(44.8), 1764.494(15.36), 1120.287(14.80)
• 930.584 15	0.0730 21	¹⁵² Eu(13.542 y)	344.281(26.58), 778.91(12.96), 411.115(2.231)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
930.584 15	†43 3	¹⁵² Tb(17.5 h)	344.281(†1500), 586.294(†223), 271.135(†203)
930.584 15	0.284 25	¹⁵² Tb(4.2 m)	344.281(20.8), 411.115(18.8), 471.9(12.2)
930.6 3	0.025 15	⁹⁵ Rb(377.5 ms)	352.02(49), 204.02(15.1), 680.7(14.8)
930.6 2	†5.1 3	¹³⁸ Pm(3.24 m)	520.9(†100), 729.0(†37.8), 493.1(†21.6)
930.67 25	†2.0 4	¹⁶⁵ Lu(10.74 m)	132.49(†100), 120.60(†100), 174.25(†47.0)
930.7 5	0.15 6	¹⁴⁰ Pm(5.95 m)	1028.19(100), 773.74(100), 419.57(92)
930.71 1	3.81 12	¹³³ Te(12.5 m)	312.072(62), 407.63(27.1), 1333.21(10.67)
930.8 1	0.027 3	¹¹⁹ I(19.1 m)	257.52(87), 635.86(2.69), 320.53(2.17)
930.8 1	0.019 4	¹²⁷ Cs(6.25 h)	411.95(62.8), 124.70(11.37), 462.31(5.07)
930.8 4	0.125 10	¹⁶⁴ Tm(5.1 m)	208.08(14.6), 314.97(10), 240.49(7.5)
930.8 2	2.9 10	¹⁷⁶ Re(5.3 m)	240.17(48), 109.08(25.0), 848.7(4.0)
• 930.807 19	1.4 3	¹⁴⁸ Eu(54.5 d)	550.284(98.5), 629.987(71.9), 611.293(20.5)
930.86 10	0.079 22	¹⁸⁴ Ta(8.7 h)	414.03(72), 252.848(43), 920.932(32.0)
930.87 12	0.17 4	¹³³ Ce(4.9 h)	477.22(39), 510.36(20.7), 58.39(19.2)
930.90 7	0.42 3	¹⁹⁵ Hg(9.9 h)	779.80(7), 61.46(6.2), 585.13(1.99)
930.91 10	0.40 3	⁹³ Sr(7.423 m)	590.238(67), 875.73(24.1), 888.13(21.8)
930.93 10	0.0128 19	²²⁸ Ac(6.15 h)	911.205(26.6), 968.971(16.2), 338.322(11.3)
930.93 10	0.24 4	²²⁸ Pa(22 h)	911.205(4.19), 463.005(1.250), 964.770(4.25)
930.95 10	0.62 4	⁸⁹ Kr(3.15 m)	220.948(20.1), 586.03(16.6), 904.27(7.2)
931.0 3	1.34 19	¹²¹ Xe(40.1 m)	252.7(13), 132.8(10.9), 445.2(7.7)
931.0 3	1.1 4	¹⁵² Ho(49.5 s)	647.2(92), 613.8(88.4), 683.3(88)
931 1	1.00 9	¹⁹⁰ Tl(3.7 m)	416.4(91), 625.4(82), 731.1(37)
• 931.06 2	0.0484 16	¹⁸⁵ Os(93.6 d)	646.116(78.0), 874.813(6.29), 880.523(5.17)
931.1 3	5 1	⁶⁴ Co(0.30 s)	1345.77(10)
931.10 5	0.414 6	¹²⁷ Cs(6.25 h)	411.95(62.8), 124.70(11.37), 462.31(5.07)
931.15 10	1.46 21	¹⁰⁸ Rh(16.8 s)	433.937(43), 618.84(15.0), 497.22(5.2)
931.15 10	12.3 18	¹⁰⁸ Rh(6.0 m)	433.937(88), 581.1(60), 947.27(49)
931.15 10	0.00055 5	¹⁰⁸ Ag(2.37 m)	433.937(0.50), 618.84(0.261), 1007.22(0.0139)
931.20 10	1.06 6	⁸⁸ Nb(7.8 m)	1057.01(89.3), 1082.53(53.9), 399.41(45.7)
931.2 4	4.3	¹¹⁶ Ag(10.4 s)	513.39(92), 705.82(61), 1028.90(30.4)
931.2 8	0.3 1	¹²³ In(5.98 s)	1130.5(63), 1019.7(32), 618.8(2.6)
931.2 7	0.5 3	¹²⁹ Sn(6.9 m)	1161.31(56.0), 1128.44(50), 760.8(16.8)
931.3 2	75	⁵⁵ Co(17.53 h)	477.2(20.2), 1408.4(16.88), 1316.4(7.09)
931.3 5	36.1 20	¹⁷⁰ Ho(2.76 m)	258.2(37.0), 181.6(23.8), 890.2(22)
931.34 2	0.545 20	¹⁸⁸ Re(16.98 h)	155.032(14.9), 632.99(1.25), 477.99(1.0)
• 931.34 2	0.263 25	¹⁸⁸ Ir(41.5 h)	155.032(29.7), 2214.62(18.7), 632.99(18)
931.37 4	3.64 24	¹¹⁷ Cd(3.36 h)	1997.33(26), 1065.98(23.1), 564.397(14.7)
931.4 1	5.8 3	⁷³ Br(3.4 m)	64.9(37.0), 336.0(10.4), 699.8(9.1)
931.5 5	0.095 25	⁸³ Y(7.08 m)	35.50(0.44), 882.1(6.30), 489.90(5.53)
931.5 15	0.49 5	¹⁰³ Cd(7.3 m)	1461.81(12), 1448.70(5.55), 1079.90(5.44)
931.5	0.37	¹⁴⁸ Pr(2.27 m)	301.702(61), 1357.78(5.5), 1023.18(4.8)
931.5 3	2.69 10	¹⁵⁰ Pr(6.19 s)	130.2(32), 722.5(7.0), 852.7(6.1)
931.5 3	0.83 22	¹⁸¹ Os(105 m)	238.75(44), 826.77(20), 118.03(12.9)
• 931.50 15	0.039 5	²⁰⁵ Bi(15.31 d)	1764.36(1.368), 703.44(31), 987.62(0.585)
931.5 6	†<6	²³⁸ Pa(2.3 m)	1015.3(†<100), 1014.6(†<100), 635.18(†88)
931.51 11	2.98 3	¹⁵⁶ Ho(56 m)	266.35(54.7), 137.83(51), 366.25(10.73)
• 931.56 20	0.022 9	¹⁵³ Tb(2.34 d)	212.038(31.0), 170.504(6.8), 109.758(6.4)
931.57 25	0.00021 9	¹²⁹ Te(69.6 m)	27.81(16.3), 459.60(7.70), 487.39(1.42)
931.6 1	0.279 17	⁹⁴ Rb(2.702 s)	1309.1(87), 836.9(87.10), 1577.5(31.8)
931.6 4	0.08 6	¹⁴² Ba(10.6 m)	255.300(20.5), 1204.3(14.23), 895.2(13.9)
931.6 2	0.053 14	¹⁷³ Ta(3.14 h)	172.2(18), 69.70(5.9), 90.3(5.0)
931.6 5	2.6 4	²⁰⁰ Bi(36.4 m)	1026.5(100), 462.34(98), 419.70(91)
931.6 7	0.84 14	²⁰¹ Bi(108 m)	629.1(24.0), 936.2(11.3), 1014.1(10.7)
931.61 7	0.0047	²³⁹ U(23.45 m)	74.664(48), 43.533(4.14), 662.24(0.18)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
931.7 1	11.8 8	⁹⁶ Sr(1.07 s)	122.297(76.50), 809.401(71.9), 530.0(9.0)
931.7 2	0.08 4	¹⁰⁹ Ru(34.5 s)	206.29(22.0), 225.98(19.6), 1929.05(13.7)
931.7 8	0.009 3	¹⁵⁷ Dy(8.14 h)	326.16(92), 182.20(1.84), 83.01(0.62)
931.7 2	1.8	¹⁶¹ Er(3.21 h)	826.6(3.0), 211.15(12.2), 592.6(3.7)
931.7 2	0.13	¹⁶¹ Er(3.21 h)	826.6(3.0), 211.15(12.2), 592.6(3.7)
931.8 3	†0.8	¹¹¹ Rh(11 s)	275.4(†100.0), 411.8(†9.42), 230.0(†8.9)
931.8 5	0.173 18	¹¹⁵ Ag(20.0 m)	229.08(18), 212.80(4.4), 472.70(4.0)
931.800 29	0.013	¹¹⁶ In(14.10 s)	1293.54(1.3), 463.16(0.25), 1252.5(0.031)
931.800 29	0.076 16	¹¹⁶ In(54.41 m)	1293.54(84.4), 1097.3(56.2), 416.86(28.9)
931.800 29	24.7 13	¹¹⁶ Sb(15.8 m)	1293.54(85), 2225.33(14.2), 2843.5(1.1)
931.9	0.045	⁹⁵ Sr(23.90 s)	685.6(23), 2717.3(4.6), 2933.1(4.1)
931.9 2	†5.0	¹³⁸ Eu(12.1 s)	346.6(†100), 544.2(†55), 685.4(†41)
• 931.9 3	1.3×10^{-8} 4	²³⁹ Pu(24110 y)	51.624(0.007100), 38.661(0.000500), 129.297(0.00631)
931.92 14	0.62 9	¹⁸³ Ir(58 m)	392.52(10.4), 228.70(6.9), 87.67(5.6)
932.00 14	0.0385 16	⁸¹ Rb(30.5 m)	49.56(0.78), 643.6(0.115), 1194.9(0.112)
932.0 5	0.59 10	⁸⁴ Y(40 m)	793.3(99), 974.6(75), 1040.2(56)
932	>0.11	⁹⁰ Nb(14.60 h)	1129.224(92.7), 2318.968(82.03), 141.178(66.8)
932.0 2	>2.8	¹⁴⁵ La(24.8 s)	70.0(11), 355.8(3.8), 118.2(3.6)
932.0 2	2.8	¹⁴⁵ La(24.8 s)	70.0(11), 355.8(3.8), 118.2(3.6)
932.0 3	0.29 9	¹⁵² Pm(7.52 m)	244.6989(78), 121.7824(45), 340.48(31.3)
932.0 1	0.78 7	²⁰⁰ Po(11.5 m)	671.0(34.0), 617.7(19.7), 434.4(9.3)
932.0 10	0.174 24	²⁰⁵ At(26.2 m)	719.30(31), 669.41(8.6), 628.88(5.6)
932.1 1	0.69 5	¹⁰⁷ Ru(3.75 m)	194.05(9.9), 847.93(5.3), 462.61(3.66)
932.1 3	11.7 3	¹⁵⁴ Pr(2.3 s)	162.4(15), 70.8(11.22), 956.9(6.8)
932.13 20	0.38 3	²⁰⁷ At(1.80 h)	814.41(44.5), 588.33(19.2), 300.654(12.8)
932.2 2	1.79 13	⁶⁵ Ga(15.2 m)	115.09(54), 61.20(11.4), 153.0(8.9)
• 932.3	4.6×10^{-5}	²⁵³ Es(20.47 d)	41.79(0.050), 389.11(0.0264), 387.1(0.00810)
932.35 7		¹⁶⁶ Lu(2.65 m)	228.12(77.3), 337.50(41), 367.95(31.4)
932.35 7	8.0 6	¹⁶⁶ Lu(1.41 m)	228.12(15), 102.38(13), 285.07(11.0)
932.37 15	6.7 10	¹⁹³ Hg(11.8 h)	257.97(61), 407.63(25), 573.25(14.2)
• 932.4 13	0.036 18	¹⁹⁴ Au(38.02 h)	328.455(60), 293.545(10.2), 1468.91(6.3)
932.42 19	0.52 5	¹⁸⁴ Au(53.0 s)	162.97(50), 272.98(40), 362.47(17.5)
932.50 20	0.24 5	¹¹⁴ Sb(3.49 m)	1299.90(99), 887.60(17.4), 327.18(7.0)
932.5 10	0.28 6	¹⁵¹ Dy(17.9 m)	386.10(19.4), 49.46(18.0), 546.31(14.3)
• 932.56 4	0.069 12	¹⁶⁵ Tm(30.06 h)	242.917(35.5), 47.155(16.9), 297.369(12.71)
932.6 9	0.08 6	¹⁴² Ba(10.6 m)	255.300(20.5), 1204.3(14.23), 895.2(13.9)
932.6 4	†5.6 17	¹⁵⁵ Nd(8.9 s)	180.574(†100), 418.99(†75), 955.08(†50)
932.6 4	0.020 6	¹⁵⁷ Eu(15.18 h)	63.929(23.0), 410.723(17.5), 370.509(11.0)
932.6 5	0.37 10	¹⁵⁹ Er(36 m)	624.5(33), 649.1(23.4), 205.92(9.7)
932.624 16	0.0093 19	¹⁵⁵ Sm(22.3 m)	104.3346(74.6), 245.771(3.7), 141.4428(1.98)
932.7 4	1.43 19	¹¹³ Rh(2.72 s)	189.7(17.0), 409.3(15.9), 219.6(3.88)
932.7 5	1.92 19	¹⁷⁸ Re(13.2 m)	237.3(45), 105.9(23.0), 939.1(8.9)
932.7 3	†<6	²³⁸ Pa(2.3 m)	1015.3(†<100), 1014.6(†<100), 635.18(†88)
932.8 2	0.42 3	²³⁵ Th(7.1 m)	417.0(2), 727.2(0.87), 696.1(0.64)
932.82 20	0.54 8	¹⁴² Cs(1.70 s)	359.598(27.2), 1326.46(12.92), 966.89(9.0)
932.85 10	0.00287 20	¹⁶¹ Gd(3.66 m)	360.94(0.59), 314.92(22.7), 102.315(13.9)
932.9	0.14	⁸³ As(13.4 s)	734.60(43), 1113.10(14.7), 2076.70(11.9)
• 932.96 5	0.621 5	¹⁴⁹ Gd(9.28 d)	149.735(48.2), 298.634(28.6), 346.651(23.9)
932.98 7	0.0127 10	¹³³ La(3.912 h)	278.835(2.50), 302.353(1.648), 290.06(1.413)
933	5.8 6	²¹ O(3.42 s)	1730.3(45.6), 3517(15.4), 279.9(14.8)
933	0.19	⁸¹ Ga(1.221 s)	216.47(37.4), 828.26(22.1), 711.18(17.6)
933.0 2	†11 2	¹¹⁴ Te(15.2 m)	90.28(†100), 83.8(†67), 1417.6(†32)
933 1	3.2	¹²⁴ Ba(11.9 m)	169.3(20), 1216(12), 188.98(10)
933.0 3	0.015 4	¹³⁹ Cs(9.27 m)	1283.23(8.3), 627.24(1.78), 1420.66(0.91)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
933 1	0.10 10	¹⁴¹ Xe(1.73 s)	909.23(24.0), 118.705(16.1), 105.937(9.8)
933 1	0.47 11	¹⁶⁴ Tb(3.0 m)	168.838(25.4), 754.80(23.3), 215.07(21)
933.0 2	0.44 14	¹⁹⁰ Tl(3.7 m)	416.4(91), 625.4(82), 731.1(37)
933.0 2	0.38 12	¹⁹⁰ Tl(2.6 m)	416.4(79), 625.4(11.1), 683.5(8.7)
• 933.005 8	3.45 11	¹⁴⁷ Eu(24.1 d)	197.299(27), 121.220(22.9), 677.516(9.8)
933.03 8	0.044 7	¹³¹ La(59 m)	108.081(25.0), 417.783(18.0), 365.162(16.9)
933.08 4	0.036	²³⁹ U(23.45 m)	74.664(48), 43.533(4.14), 662.24(0.18)
933.1 3	†4.51 18	¹²⁹ Ba(2.17 h)	182.30(†100), 1459.1(†50.0), 202.38(†33.7)
933.1 1	26.1 14	¹³¹ Sb(23.03 m)	943.4(47), 642.30(23), 1123.6(9.2)
933.10 25	0.14 4	¹⁵⁹ Tm(9.13 m)	38.35(5.8), 84.8(5.8), 271.30(5.1)
933.1 5	†1.05 24	¹⁸⁹ Hg(7.6 m)	320.99(†100), 78.21(†63), 565.42(†48)
933.13 3	0.448 22	⁶⁹ As(15.2 m)	232.69(11), 145.95(4.96), 86.78(3.44)
• 933.2 4	†0.021 10	¹⁰² Rh(207 d)	475.070(†47), 628.05(†4.6), 1103.16(†2.99)
933.298 14	5.3 3	¹⁸⁶ Ir(16.64 h)	296.911(64.0), 137.155(42), 434.849(34.4)
933.298 14	1.97 25	¹⁸⁶ Ir(2.0 h)	137.155(27), 767.508(21.2), 630.354(18.0)
933.3 3	0.75 23	¹⁰¹ Mo(14.61 m)	191.92(19), 590.91(16.4), 1012.47(12.8)
933.3 4	1.4	²⁰³ Bi(11.76 h)	820.3(30), 825.2(14.6), 896.9(13)
933.4 4	0.045 9	¹²⁰ Xe(40 m)	25.1(30), 72.6(9), 178.1(6.8)
933.5 2	0.062 7	¹³⁷ Pr(1.28 h)	836.7(1.8), 433.9(1.28), 514.0(1.08)
933.5 4	0.16	¹⁵⁴ Pm(1.73 m)	2057.76(17.1), 1393.9(14.4), 81.99(12.6)
933.5 4	<0.77	¹⁵⁴ Pm(2.68 m)	184.810(32), 81.99(15.4), 546.66(14.5)
933.6 4	0.44 11	¹³⁹ Sm(2.57 m)	273.7(37), 306.7(28.5), 596.3(8.0)
933.6 4	†2.3 12	¹⁵⁵ Nd(8.9 s)	180.574(†100), 418.99(†75), 955.08(†50)
933.62 92	0.024 10	¹⁷⁴ Ta(1.05 h)	206.50(58), 91.00(16.0), 1205.92(4.9)
933.62 14	0.014 6	¹⁸⁷ W(23.72 h)	685.774(27.3), 479.531(21.8), 72.001(11.14)
933.7 4	2.47 22	⁹⁷ Pd(3.10 m)	265.26(56), 475.2(26.7), 792.70(13.8)
933.7 20	0.013 3	¹⁴⁵ Gd(23.0 m)	1757.9(34.2), 1880.6(32.6), 1041.8(9.9)
933.7 2	0.28 4	¹⁸³ Au(42.0 s)	161.18(9.4), 214.13(5.9), 313.08(5.0)
933.73 19	0.71 4	⁸³ Se(22.3 m)	356.687(70), 510.17(43), 224.8(32.7)
933.75 8	0.189 13	¹⁴³ Cs(1.78 s)	195.554(13), 232.421(8.32), 306.424(6.80)
933.76 6	0.033 8	¹³⁵ Ce(17.7 h)	265.56(41.8), 300.07(23.5), 606.76(18.8)
• 933.8 7	2.000 6	¹¹⁵ Cd(44.6 d)	1290.580(0.890), 484.470(0.290), 1132.570(0.0856)
933.8 3	0.0053 21	¹⁶⁷ Yb(17.5 m)	113.34(55.3), 106.18(22.5), 176.25(21)
933.8 11	<0.14	¹⁷⁵ Ta(10.5 h)	207.4(14.0), 348.5(12.0), 266.9(10.8)
933.8	0.53 17	¹⁹² Au(4.94 h)	316.50791(58.0), 295.95827(22.3), 2236.89(5.6)
933.82 6	0.084 6	¹³⁷ Xe(3.818 m)	455.490(31), 848.95(0.62), 1783.43(0.415)
933.9 5	0.07 3	¹¹⁹ Cd(2.69 m)	292.9(36.8), 343.0(16.9), 1609.7(10.9)
933.9 2	†4	¹³⁹ I(2.29 s)	527.7(†100), 571.2(†98), 536.6(†67)
• 933.9 5	0.0038 7	¹⁵¹ Pm(28.40 h)	340.08(23), 167.75(8.3), 275.21(6.8)
933.9 3	1.6 3	¹⁷¹ Re(15.2 s)	568.4(16.1), 102.0(9.7), 1066.0(8.1)
933.9 4	†0.40 13	¹⁸⁸ Au(8.84 m)	265.63(†100), 340.04(†23.9), 605.5(†16.3)
933.9 3	0.028 6	¹⁸⁹ Pt(10.87 h)	721.41(9.3), 94.33(7.6), 568.84(7.1)
933.94 4	0.0012 6	¹⁷³ Hf(23.6 h)	123.672(83), 296.974(33.9), 139.634(12.7)
• 933.95 20	0.15 3	¹⁸⁸ Ir(41.5 h)	155.032(29.7), 2214.62(18.7), 632.99(18)
934.0 4	7.5×10^{-5} 17	¹⁰⁷ Cd(6.50 h)	93.124(1.45), 828.93(0.17), 796.462(0.0665)
934 1	0.12 6	¹³³ Te(12.5 m)	312.072(62), 407.63(27.1), 1333.21(10.67)
934	0.031 16	¹⁴² Ba(10.6 m)	255.300(20.5), 1204.3(14.23), 895.2(13.9)
934 1		¹⁴² Tb(597 ms)	515.0(25), 465.0(2.7), 853.1(2.42)
934.00 10	12.3 6	¹⁵⁶ Pm(26.70 s)	173.75(52.0), 1147.84(20.5), 117.42(13.8)
934.0 2	†0.30 7	¹⁵⁸ Ho(11.3 m)	218.21(†100.0), 98.91(†70), 945.7(†37)
934.0 5	0.47 11	¹⁶⁴ Tb(3.0 m)	168.838(25.4), 754.80(23.3), 215.07(21)
934.0 8	3.7 9	¹⁷⁰ Ho(2.76 m)	258.2(37.0), 931.3(36.1), 181.6(23.8)
934.0 5	0.050 10	²¹⁴ Bi(19.9 m)	609.312(44.8), 1764.494(15.36), 1120.287(14.80)
934.03 26	1.77 6	¹⁴⁶ Cs(0.343 s)	181.02(57.0), 557.76(9.18), 332.38(6.44)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
934.04 9	0.130 21	¹⁵¹ Nd(12.44 m)	116.80(43.4), 255.68(16.4), 1180.89(14.8)
934.05 15	0.96 5	²⁰⁸ At(1.63 h)	686.527(98), 660.040(89), 177.595(48.6)
934.061 12	3.03 5	²¹⁴ Bi(19.9 m)	609.312(44.8), 1764.494(15.36), 1120.287(14.80)
934.1 2	0.09 4	⁶¹ Zn(89.1 s)	475.0(16.85), 1660.5(7.80), 970.0(2.57)
934.1 2	0.78 13	¹³⁵ Pr(24 m)	296.12(24), 82.64(13.7), 213.45(13.0)
• 934.1 6	0.008 6	¹⁵³ Tb(2.34 d)	212.038(31.0), 170.504(6.8), 109.758(6.4)
934.1 12	1.7 5	¹⁶⁸ Ta(2.0 m)	124.0(35.6), 261.6(22.7), 751.4(7.3)
934.13 15	0.29 4	²⁰⁴ Bi(11.22 h)	899.15(98), 374.72(82), 984.02(59)
934.14 4	1.271 14	¹⁰⁵ Cd(55.5 m)	961.84(4.69), 346.870(4.20), 1302.459(3.98)
934.2 10	0.074 15	⁷⁶ Br(16.2 h)	559.101(74), 657.041(15.9), 1853.67(14.7)
934.208 28	3.4 3	¹⁰¹ Mo(14.61 m)	191.92(19), 590.91(16.4), 1012.47(12.8)
934.24 8	0.039 10	¹⁵⁷ Eu(15.18 h)	63.929(23.0), 410.723(17.5), 370.509(11.0)
934.3 2	0.343 22	²²⁸ Fr(39 s)	473.7(10.2), 474.0(7.6), 410.40(6.3)
934.33 15	0.522 17	¹⁹² Au(4.94 h)	316.50791(58.0), 295.95827(22.3), 2236.89(5.6)
• 934.39 7	0.0046 4	¹⁷¹ Lu(8.24 d)	739.78(47.8), 19.394(13.7), 667.404(11.04)
934.46 5	13.9 8	⁹² Y(3.54 h)	1405.28(4.8), 561.03(2.40), 448.34(2.34)
• 934.46 5	99	⁹² Nb(10.15 d)	912.73(1.78), 1847.27(0.85), 1132.24(0.005)
• 934.46 5	100	⁹² Nb(3.47×10 ⁷ y)	561.03(100)
934.483 5	0.873 14	¹³¹ Te(25.0 m)	149.716(69), 452.323(18.18), 1146.96(4.95)
934.5 10	0.10 8	¹⁴¹ Xe(1.73 s)	909.23(24.0), 118.705(16.1), 105.937(9.8)
• 934.5 5	0.07 4	¹⁶⁹ Lu(34.06 h)	960.622(23.4), 191.2137(20.6), 1449.74(9.92)
934.5 5	0.010 3	²¹⁴ Bi(19.9 m)	609.312(44.8), 1764.494(15.36), 1120.287(14.80)
934.5 1	0.33 4	²⁴⁰ Np(61.9 m)	566.34(25.3), 973.9(23.8), 600.57(18.4)
• 934.5 1	0.025 3	²⁴⁰ Am(50.8 h)	987.76(73.2), 888.80(25.1), 98.860(1.5)
934.6 5	0.038 12	⁸⁹ Kr(3.15 m)	220.948(20.1), 586.03(16.6), 904.27(7.2)
934.6 2	0.45 5	¹⁰⁴ Ag(33.5 m)	555.796(91), 1238.0(3.87), 2276.7(2.46)
934.6 3	0.09	²⁰⁷ At(1.80 h)	814.41(44.5), 588.33(19.2), 300.654(12.8)
• 934.63 5	0.209 8	¹²⁵ Sn(9.64 d)	1067.10(10), 1089.15(4.59), 822.48(4.28)
934.7	12.9 20	³⁶ Si(0.45 s)	175.0(68), 249.9(68), 878.2(44)
934.70 10	0.320 24	⁹³ Rb(5.84 s)	432.61(17.4), 986.05(6.8), 213.429(6.7)
934.70 10	†86	⁹⁴ Rb(2.702 s)	432.61(†9000), 213.429(†6000), 986.05(†4100)
934.7 5	0.23 7	¹²³ Cs(5.94 m)	97.3(23), 596.7(10.1), 83.3(4.1)
934.7 1	3.65 18	²¹¹ Rn(14.6 h)	674.1(45), 1362.9(32.5), 678.4(28.9)
• 934.84 15	0.121 8	⁷⁹ Kr(35.04 h)	261.29(13), 397.54(9.3), 606.09(8.12)
934.90 15	0.0224 7	⁷³ Se(39.8 m)	67.03(2.59), 253.70(2.356), 84.0(2.03)
934.9 1	0.328 7	⁷⁹ Rb(22.9 m)	688.1(23), 182.77(19.2), 143.41(13.9)
934.9 3	0.31 3	¹²³ Xe(2.08 h)	148.9(49), 178.1(14.9), 330.2(8.6)
934.9 2	19 1	¹³⁰ Sb(39.5 m)	793.53(100), 839.49(100), 331.05(78)
934.9 3	0.06 3	¹⁴⁰ Cs(63.7 s)	602.345(71.1), 908.25(11.6), 1200.25(6.39)
934.9 5	†10 3	¹⁶⁴ Tm(2.0 m)	91.40(†1500), 1154.66(†366), 768.91(†279)
934.91 50	0.15 3	¹⁶³ Yb(11.05 m)	860.28(10.1), 63.62(6.5), 123.21(1.98)
935.0 3	†4.51 18	¹²⁹ Ba(2.17 h)	182.30(†100), 1459.1(†50.0), 202.38(†33.7)
935 1	0.0021 16	¹³⁶ La(9.87 m)	818.514(2.3), 760.50(0.289), 1322.76(0.264)
935.0 10	0.65 25	¹⁸⁶ Ta(10.5 m)	197.93(50), 214.87(42.3), 510.82(37.5)
935.02 7	0.08 3	¹⁸⁷ Ir(10.5 h)	912.95(4.79), 427.12(4.12), 400.89(3.94)
935.03 12	0.181 16	¹³⁸ Cs(33.41 m)	1435.795(76.3), 462.796(30.7), 1009.78(29.8)
935.10 3	10.6 6	¹²³ Cd(1.82 s)	1165.86(25.7), 1027.45(22.6), 2102.81(12.5)
935.1	5.3 6	¹⁴⁵ Tb(29.5 s)	257.8(39), 987.8(37), 537.0(23)
935.1	0.015 15	¹⁵¹ Nd(12.44 m)	116.80(43.4), 255.68(16.4), 1180.89(14.8)
935.1 7	1.4 3	²⁰⁰ Bi(36.4 m)	1026.5(100), 462.34(98), 419.70(91)
935.17 8	0.42 3	¹⁶⁵ Yb(9.9 m)	80.11(49), 68.86(9.1), 1090.28(4.4)
• 935.175 14	0.028 3	⁷¹ As(65.28 h)	174.954(82.00), 1095.490(4.08), 499.876(3.624)
935.19 18	0.34 3	¹⁷⁹ Re(19.5 m)	430.221(28), 289.968(26.9), 1680.244(13.0)
935.20 5	6.5 4	¹²⁸ In(0.84 s)	1168.80(40), 1089.53(6.0), 2104.07(5.3)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
• 935.20 14	0.053 5	¹⁴⁸ Eu(54.5 d)	550.284(98.5), 629.987(71.9), 611.293(20.5)
935.2 7	0.049	²³³ Th(22.3 m)	86.477(2.7), 29.374(2.5), 459.222(1.4)
935.2 3	0.08	²³⁸ Am(98 m)	962.77(28), 918.69(23.0), 561.11(10.9)
• 935.26 20	0.17 3	¹⁸⁸ Ir(41.5 h)	155.032(29.7), 2214.62(18.7), 632.99(18)
935.32 4	0.032 8	¹⁸⁰ Re(2.44 m)	902.795(90), 103.557(22.2), 825.357(9.9)
935.5 5	0.45 8	¹¹⁷ I(2.22 m)	325.9(75), 274.4(20.4), 661.5(5.1)
935.5 15	0.14 4	¹⁷³ Ta(3.14 h)	172.2(18), 69.70(5.9), 90.3(5.0)
• 935.5 2	0.0120 16	¹⁹¹ Pt(2.9 d)	538.90(13.7), 409.44(8.0), 359.90(6.0)
935.50 25	0.35 10	²⁰⁴ At(9.2 m)	684.341(95), 516.318(90), 426.253(67.5)
935.538 11	0.061 3	⁵² V(3.75 m)	1434.068(100), 1333.649(0.588), 1530.67(0.116)
• 935.538 11	†94.9 3	⁵² Mn(5.591 d)	1434.068(†100.0), 744.233(†90.6), 1333.649(†5.07)
935.538 11	†0.02 1	⁵² Mn(21.1 m)	1434.068(†101.7), 1727.53(†0.224), 1530.67(†0.0478)
935.6 9	0.36 18	⁷⁴ Br(46 m)	634.78(91), 728.37(35.6), 634.26(16.4)
935.6 1	0.49 6	¹⁴² Gd(70.2 s)	750.2(11.2), 178.90(11.20), 284.4(6.16)
935.6 6	0.09 3	¹⁶¹ Er(3.21 h)	826.6(3.0), 211.15(12.2), 592.6(3.7)
• 935.614 10	0.06 4	²⁰⁰ Tl(26.1 h)	367.943(87), 1205.717(29.9), 579.298(13.8)
935.68 20	0.042 8	⁶⁶ Ge(2.26 h)	43.89(28.7), 381.85(28), 272.97(10.4)
935.7 3	†0.55 14	⁹⁵ Pd(13.3 s)	1350.9(†105), 716.6(†70.63), 381.8(†50.8)
935.7 3	0.13 3	¹⁴¹ Eu(40.0 s)	394.0(9), 384.5(5.6), 382.9(2.97)
• 935.7 5	0.022 12	¹⁵³ Tb(2.34 d)	212.038(31.0), 170.504(6.8), 109.758(6.4)
935.7 4	0.05 3	¹⁸⁵ Au(4.25 m)	310.6(13), 243.1(6.6), 77.7(6)
935.77 6	1.71 9	¹¹³ Sb(6.67 m)	497.96(80), 332.41(14.8), 88.25(2.7)
• 935.8 4	0.029 6	⁸³ Sr(32.41 h)	762.65(30), 381.53(14.1), 418.37(4.41)
935.8 5	0.22 5	¹⁶¹ Tm(33 m)	45.54(5.00), 1648.1(9.50), 84.40(9.4)
935.8 6	0.7	²⁰³ Bi(11.76 h)	820.3(30), 825.2(14.6), 896.9(13)
935.8 2	0.066 7	²³⁴ Pa(6.70 h)	131.30(18), 946.00(13.4), 883.24(9.6)
935.83 10	1.6 1	¹⁴⁸ Pr(2.0 m)	301.702(95), 450.58(50), 697.61(40)
935.9 2	0.209 19	⁹¹ Tc(3.14 m)	2450.90(13.5), 1639.90(9.2), 1605.20(7.77)
935.9 2	0.51 12	¹⁰⁸ Tc(5.17 s)	242.25(82), 465.6(14.3), 707.81(11.4)
935.9 3	0.084 20	¹⁴⁰ Xe(13.60 s)	805.52(20), 1413.66(12.2), 1315.05(8.2)
935.90 6	0.0047 8	¹⁴⁹ Nd(1.728 h)	211.309(25.9), 114.314(19.2), 270.166(10.7)
936.0	0.044 9	⁴³ Ti(509 ms)	2288.2(4.40), 845.2(2.77), 2458.5(0.91)
936.0 10	0.109 23	⁷⁶ Kr(14.8 h)	315.7(39), 270.2(21.1), 45.48(19.5)
936.0 10	†13	⁹⁹ Rb(59 ms)	90.8(†100), 125.2(†40), 1071.6(†26)
936.0 3	0.19 6	¹⁰⁸ In(39.6 m)	632.96(76), 1986.8(12.4), 3452.2(9.2)
936.0 2	†0.32 9	¹⁶⁰ Ho(5.02 h)	728.18(†100), 879.383(†65.9), 962.317(†59.1)
936.0 6	0.08 4	¹⁶⁷ Lu(51.5 m)	29.66(14.4), 239.22(8.6), 213.19(3.6)
936.01 16	0.302 17	¹⁹² Au(4.94 h)	316.50791(58.0), 295.95827(22.3), 2236.89(5.6)
936.03 15	0.39	²⁰⁵ At(26.2 m)	719.30(31), 669.41(8.6), 628.88(5.6)
936.1 5	0.29 7	¹⁵⁹ Eu(18.1 m)	67.8(19), 78.6(9.1), 95.7(7.0)
936.2 5	11.3 6	²⁰¹ Bi(108 m)	629.1(24.0), 1014.1(10.7), 786.4(9.5)
936.27 10	1.07 7	¹⁵¹ Dy(17.9 m)	386.10(19.4), 49.46(18.0), 546.31(14.3)
936.3 5	0.18 4	⁹⁸ Y(0.548 s)	1223.0(36.0), 2941.3(16.7), 1590.9(14.7)
936.3 10	†1.8×10 ³ 5	²³⁴ Pa(1.17 m)	1001.03(†837000), 766.38(†294000), 742.81(†80000)
936.34 8	0.86 22	¹³³ Sb(2.5 m)	1096.22(43.0), 817.8(18.5), 2755(12.5)
936.36 11	0.135 13	¹³⁸ Xe(14.08 m)	258.411(31.5), 434.562(20.3), 1768.26(16.7)
936.4 2	0.77 13	⁷⁴ Br(25.4 m)	634.78(64), 219.05(18.1), 634.26(14.1)
936.4 3	†333 48	¹⁵⁷ Ho(12.6 m)	279.97(†47600), 341.16(†37000), 193.41(†15200)
936.41 8	0.000220	¹⁷⁶ Lu(3.635 h)	88.34(0.55640), 1159.28(0.00139), 1061.61(0.000762)
936.41 8	0.6	¹⁷⁶ Ta(8.09 h)	1159.28(25), 88.34(12), 1224.93(6)
936.44 5	0.270 8	¹²¹ I(2.12 h)	212.189(84), 532.08(6.07), 598.74(1.47)
936.50 10	2.79 19	¹²⁵ In(2.36 s)	1335.04(71), 1031.75(9.6), 617.88(7.4)
936.5 10	0.25	¹⁸⁶ Ta(10.5 m)	197.93(50), 214.87(42.3), 510.82(37.5)
936.5 3	†2.6 5	¹⁸⁹ Hg(7.6 m)	320.99(†100), 78.21(†63), 565.42(†48)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
936.55 15	66 4	¹⁰⁰ Cd(49.1 s)	139.71(6.7), 582.5(6.3), 507.25(5.5)
936.6 3	0.40 7	¹²¹ Cs(155 s)	153.9(15.2), 239.6(7.7), 427.1(3.63)
936.6 3	0.31 5	¹²¹ Cs(122 s)	179.4(30.2), 196.0(24.1), 459.7(12.0)
936.6 2	0.81 16	¹³⁰ La(8.7 m)	357.4(81.0), 550.7(25.9), 908.0(17.0)
936.6 2	0.104 21	¹⁸³ Ir(58 m)	392.52(10.4), 228.70(6.9), 87.67(5.6)
• 936.61 6	0.40 1	²³⁸ Np(2.117 d)	984.45(27.8), 1028.54(20.3), 1025.87(9.6)
936.62 4	9.6 4	⁸¹ Ga(1.221 s)	216.47(37.4), 828.26(22.1), 711.18(17.6)
936.7 4	2.20 6	⁹⁹ Rh(4.7 h)	340.71(70), 617.8(12.0), 1261.2(11)
936.7	16	¹⁴⁰ I(0.86 s)	376.657(91), 457.630(59), 564.4(11)
936.7 3	0.0072 23	¹⁶⁷ Yb(17.5 m)	113.34(55.3), 106.18(22.5), 176.25(21)
936.7 4	0.011 4	²³⁵ Pu(25.3 m)	49.10(2.36), 756.4(0.479), 34.23(0.23)
936.79 7	5.74 25	¹⁶⁶ Lu(2.65 m)	228.12(77.3), 337.50(41), 367.95(31.4)
936.79 7	8.3 6	¹⁶⁶ Lu(1.41 m)	228.12(15), 102.38(13), 285.07(11.0)
936.8 1	0.62 8	⁹⁶ Rb(0.199 s)	815.0(78.00), 692.0(8.0), 813.2(7.0)
• 936.8 10	0.017 4	¹⁴⁷ Gd(38.06 h)	229.32(63), 396.00(34.3), 929.01(20.2)
936.8 3	0.049 21	¹⁵¹ Nd(12.44 m)	116.80(43.4), 255.68(16.4), 1180.89(14.8)
936.8 2	†37 3	¹⁹¹ Pb(2.18 m)	387.1(†100), 712.2(†46), 613.5(†40)
936.91 7	†3.96 6	⁷¹ Se(4.74 m)	147.50(†211), 1095.26(†43.6), 830.33(†43.2)
936.93 11	0.45 5	⁹⁹ Sr(0.269 s)	125.118(16.1), 536.12(14.0), 1198.12(9.2)
936.97 8	4.05 24	⁸⁰ Ge(29.5 s)	265.36(27.0), 110.4(6.5), 1564.3(4.9)
937 2	1.2 6	⁷⁶ Rb(39.1 s)	2571.3(47), 424.0(43.4), 355.6(8.2)
937.0 3	0.22 5	¹²⁹ In(0.61 s)	2118.0(45), 1865.0(32), 769.3(9.1)
• 937.0 2	0.0031 10	¹⁵² Eu(13.542 y)	344.281(26.58), 778.91(12.96), 411.115(2.231)
937.0 2	†4.5 5	¹⁵² Tb(17.5 h)	344.281(†1500), 586.294(†223), 271.135(†203)
937.0 3	0.7 4	¹⁵² Ho(49.5 s)	647.2(92), 613.8(88.4), 683.3(88)
937.0 5	0.095 16	²²⁷ Fr(2.47 m)	90.035(39), 585.804(29.5), 64.267(14.5)
937.03 4	0.0020 4	²⁰⁵ Hg(5.2 m)	203.750(2.2), 415.70(0.0130), 1218.96(0.0062)
937.05 5	0.0026 5	¹⁴⁵ Pr(5.984 h)	748.278(0.5250), 675.795(0.514), 72.500(0.261)
937.19 20	0.18	¹³⁷ I(24.5 s)	1218.00(12.8), 601.05(4.80), 1302.64(4.42)
937.2 2	10.8 4	¹⁶² Ho(67.0 m)	185.005(28.6), 1220.0(22.5), 282.864(11.3)
937.3 10	0.007 3	¹¹¹ Pd(23.4 m)	580.00(0.8), 70.44(0.78), 1459.0(0.56)
937.3 1	†43 4	¹²³ La(17 s)	92.5(†100), 153.6(†43), 120.9(†31)
937.30 12	0.37	¹⁵⁴ Pm(1.73 m)	2057.76(17.1), 1393.9(14.4), 81.99(12.6)
937.3 6	0.056 24	¹⁶¹ Er(3.21 h)	826.6(3.0), 211.15(12.2), 592.6(3.7)
937.33 6	1.71 9	⁷⁵ Zn(10.2 s)	228.67(28.9), 432.29(20.2), 155.94(17.2)
• 937.38	0.08	¹⁴⁶ Eu(4.59 d)	747.2(98), 633.03(43), 634.07(37)
• 937.39 10	0.0192 21	¹⁶⁵ Tm(30.06 h)	242.917(35.5), 47.155(16.9), 297.369(12.71)
937.4 4	1.1 3	¹⁰² Ag(12.9 m)	556.52(91), 719.40(58), 1744.99(17.3)
• 937.41 5	0.127 9	¹⁵³ Tb(2.34 d)	212.038(31.0), 170.504(6.8), 109.758(6.4)
• 937.47 12	0.0033 5	¹⁷¹ Lu(8.24 d)	739.78(47.8), 19.394(13.7), 667.404(11.04)
• 937.493 4	34.13 11	¹¹⁰ Ag(249.79 d)	657.7622(94.0), 884.685(72.2), 1384.300(24.12)
937.493 4	68.4 14	¹¹⁰ In(4.9 h)	657.7622(98.3), 884.685(92.9), 707.40(29.5)
937.494 23	0.151 3	¹²⁵ Xe(16.9 h)	188.418(54), 243.378(30.1), 54.968(6.81)
937.53 9	0.0091 5	¹⁶¹ Gd(3.66 m)	360.94(0.59), 314.92(22.7), 102.315(13.9)
937.56 7	0.95 17	¹⁶⁴ Lu(3.14 m)	123.3(34.0), 740.52(12.2), 262.22(10.8)
937.6 5	0.147 16	²²⁸ Fr(39 s)	473.7(10.2), 474.0(7.6), 410.40(6.3)
937.7 5	†15 3	¹³⁰ Sn(1.7 m)	144.9(†100), 899.2(†49), 84.7(†42)
937.71 17	0.51 5	¹⁰³ Tc(54.2 s)	346.380(17.5), 136.079(16.6), 562.90(7.0)
937.8 13	0.050 9	¹⁸ N(624 ms)	1981.95(83.2), 821.76(49.0), 1651.61(48.9)
937.8 3	0.33 3	¹⁸⁷ Au(8.4 m)	1331.81(7.0), 1408.23(3.06), 914.73(3.02)
• 937.82 1	0.0261 13	¹⁴³ Ce(33.039 h)	293.266(42.80), 57.356(11.7), 664.571(5.69)
937.86 19	0.85 13	¹⁹⁵ Pb(15.0 m)	383.64(106.9), 394.21(44), 878.40(24.2)
937.89 8	2.11 11	¹⁹⁹ Pb(90 m)	366.90(44.2), 353.39(9.5), 1135.04(7.8)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
• 937.9 8	0.006	¹²⁴ Sb(60.20 d)	602.730(97.8), 1690.980(47.3), 722.786(10.76)
937.9 4	0.067 6	¹³⁹ Xe(39.68 s)	218.59(56), 296.53(21.7), 174.97(11.3)
937.9 6	0.15 7	¹⁷⁵ Ta(10.5 h)	207.4(14.0), 348.5(12.0), 266.9(10.8)
937.96 25	0.092 10	¹⁶⁵ Yb(9.9 m)	80.11(49), 68.86(9.1), 1090.28(4.4)
937.96 8	2.26 14	¹⁸⁶ Ir(2.0 h)	137.155(27), 767.508(21.2), 630.354(18.0)
• 938	0.0008 5	⁴⁸ V(15.9735 d)	983.517(99.98), 1312.096(97.5), 944.104(7.76)
938.0 3	0.11 3	¹⁵³ Dy(6.4 h)	80.723(11.10), 213.754(10.90), 99.659(10.51)
• 938.0 8	†0.00065	²²⁷ Th(18.72 d)	235.971(†813), 50.13(†528), 256.25(†463)
938.02 10	1.21 5	²⁴⁰ Np(7.22 m)	554.60(20.9), 597.40(11.7), 1496.9(1.33)
• 938.02 10	>6.0×10 ⁻⁷	²⁴⁴ Cm(18.10 y)	42.824(.0044100), 98.860(.0001470), 152.63(<4.9×10 ⁻⁷)
938.1 4	0.24 10	⁹² Ru(3.65 m)	213.81(96), 259.32(92), 134.57(65.5)
• 938.10 9	0.116 5	¹⁴⁸ Eu(54.5 d)	550.284(98.5), 629.987(71.9), 611.293(20.5)
938.19 4	0.118 4	¹⁵⁵ Dy(9.9 h)	226.918(68.4), 184.564(3.37), 1089.8(>2.8)
938.2		¹³⁰ Pr(40.0 s)	951.9, 499.0, 1405
938.2 1	0.17 3	²⁴⁰ Np(61.9 m)	566.34(25.3), 973.9(23.8), 600.57(18.4)
• 938.2 1	0.007 3	²⁴⁰ Am(50.8 h)	987.76(73.2), 888.80(25.1), 98.860(1.5)
938.3 2	†5.7 7	⁸² Ga(0.602 s)	1348.07(†100), 2215.0(†22.0), 867.46(†13.4)
938.3 2	1.37 11	¹⁰¹ Ag(11.1 m)	261.0(53), 588.0(10.0), 667.3(9.8)
938.3 10	1.1 3	¹⁹¹ Hg(50.8 m)	252.5(57), 420.1(18.6), 578.6(17.6)
938.34 16	0.150 16	¹⁴¹ Cs(24.94 s)	48.53(7.90), 561.63(4.7), 1194.02(3.95)
938.4 3	0.087 9	¹⁰¹ Tc(14.22 m)	306.85(88), 545.06(6.0), 127.23(2.86)
938.4 3	4.8 5	¹¹⁸ I(8.5 m)	605.71(99), 600.71(92), 614.42(65)
938.4 5	0.24 5	¹²¹ Xe(40.1 m)	252.7(13), 132.8(10.9), 445.2(7.7)
938.4 2	1.01 17	²⁴⁵ Pu(10.5 h)	327.428(25.4), 560.13(5.4), 308.222(4.9)
938.45 3	2.96 9	⁸¹ Sr(22.3 m)	153.54(33.8), 147.76(30.1), 443.34(17.5)
938.50 14	0.077 3	⁷² Ga(14.10 h)	834.01(96), 2201.69(25.9), 629.95(24.8)
• 938.50 14	0.056 12	⁷² As(26.0 h)	834.01(80), 629.95(7.92), 1463.95(1.107)
938.5 2	0.015 4	¹³⁵ Ce(17.7 h)	265.56(41.8), 300.07(23.5), 606.76(18.8)
• 938.610 9	2.39 3	¹⁴⁹ Gd(9.28 d)	149.735(48.2), 298.634(28.6), 346.651(23.9)
938.7 5	0.093 20	¹⁵¹ Tb(17.609 h)	287.357(28.3), 251.863(26.3), 108.088(24.3)
938.7 2	0.11 3	¹⁷³ Ta(3.14 h)	172.2(18), 69.70(5.9), 90.3(5.0)
938.70 2	0.599 18	¹⁹⁴ Ir(19.15 h)	328.455(13.1), 293.545(2.55), 645.157(1.17)
• 938.70 2	1.09 6	¹⁹⁴ Au(38.02 h)	328.455(60), 293.545(10.2), 1468.91(6.3)
• 938.75 8	1.58 4	¹⁷⁰ Lu(2.00 d)	84.2551(4.256), 1280.25(3.450), 2041.88(1.434)
938.79 5	0.0060 8	¹⁴⁹ Nd(1.728 h)	211.309(25.9), 114.314(19.2), 270.166(10.7)
938.9 2	0.34 6	⁸¹ As(33.3 s)	467.72(20), 491.20(8.5), 521.10(1.40)
938.90 7	0.63 3	¹⁰³ Ag(65.7 m)	118.72(31.2), 148.193(28.3), 266.86(13.3)
938.9 3	0.99 25	¹²¹ Cd(13.5 s)	324.976(49.5), 1040.26(16.8), 349.937(12.9)
938.9 3	2.6 3	¹²⁸ La(5.0 m)	284.00(87), 479.24(54), 643.65(14.7)
938.9 2	†3.5 4	¹⁸² Ir(15 m)	273.23(†100), 126.79(†77), 236.3(†21.0)
• 938.95 10	0.026 3	²³⁸ Np(2.117 d)	984.45(27.8), 1028.54(20.3), 1025.87(9.6)
938.95 10	0.0034	²³⁸ Am(98 m)	962.77(28), 918.69(23.0), 561.11(10.9)
• 938.95 10	1.8×10 ⁻⁷ 8	²⁴² Cm(162.8 d)	44.08(0.0325), 101.90(0.0025), 157.42(0.0014)
939.00 20	1.0 5	¹¹⁴ Sb(3.49 m)	1299.90(99), 887.60(17.4), 327.18(7.0)
939 1	>0.35	¹³⁷ Pm(2.4 m)	177.5(40.29), 108.6(35), 233.6(29.57)
939.0 5	0.028 21	¹⁴⁰ Cs(63.7 s)	602.345(71.1), 908.25(11.6), 1200.25(6.39)
939.0 3	0.75 8	¹⁸⁴ Au(53.0 s)	162.97(50), 272.98(40), 362.47(17.5)
939.0 3	0.00038	²³⁹ U(23.45 m)	74.664(48), 43.533(4.14), 662.24(0.18)
939.1 5	0.045 9	¹⁵¹ Tb(17.609 h)	287.357(28.3), 251.863(26.3), 108.088(24.3)
939.1 5	8.9 8	¹⁷⁸ Re(13.2 m)	237.3(45), 105.9(23.0), 777.9(3.8)
939.15 5	0.077 5	²⁴⁶ Am(25.0 m)	1078.86(27.7), 798.80(25), 1062.04(17.1)
939.18 14	0.071 16	¹⁴¹ Cs(24.94 s)	48.53(7.90), 561.63(4.7), 1194.02(3.95)
939.2 5	0.031 6	¹⁵¹ Tb(17.609 h)	287.357(28.3), 251.863(26.3), 108.088(24.3)
939.2 3	0.77 5	¹⁷⁷ W(135 m)	115.65(50), 426.98(13.2), 1036.4(10.3)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
939.2 3	0.063 6	¹⁸⁶ Hg(1.38 m)	112.1(63), 251.5(55), 191.6(3.7)
939.2 2	0.08 3	²³⁰ Ac(122 s)	454.95(8), 508.20(5.15), 1243.9(3.50)
939.25 7	1.95 20	²⁰⁶ At(30.0 m)	700.66(98), 477.10(86), 395.54(48)
939.3 5	0.23 5	¹⁰³ Cd(7.3 m)	1461.81(12), 1448.70(5.55), 1079.90(5.44)
939.30 3	1.76 4	²⁰⁸ Rn(24.35 m)	426.78(7.07), 251.05(5.02), 350.026(3.34)
939.35 3	0.285 7	⁷⁷ Ge(11.30 h)	264.44(54), 211.03(30.8), 215.50(28.6)
939.36 7	0.259 7	⁷² Ga(14.10 h)	834.01(96), 2201.69(25.9), 629.95(24.8)
• 939.36 7	0.0064 8	⁷² As(26.0 h)	834.01(80), 629.95(7.92), 1463.95(1.107)
939.4 3	0.066 14	⁸⁹ Kr(3.15 m)	220.948(20.1), 586.03(16.6), 904.27(7.2)
939.4 3	0.35 11	²⁰⁷ Rn(9.25 m)	344.53(46), 747.15(14.2), 402.68(11.9)
939.41 8	†21	¹⁹⁷ Ir(5.8 m)	469.72(†100), 430.56(†61), 815.92(†45)
939.453 28	0.0496 14	¹⁵⁹ Ho(33.05 m)	121.012(36.2), 131.973(23.6), 309.594(17.2)
939.5 3	0.045 9	²⁰⁹ At(5.41 h)	545.0(91), 781.9(83.5), 790.2(63.5)
• 939.57 6	0.66 6	¹⁸⁸ Ir(41.5 h)	155.032(29.7), 2214.62(18.7), 632.99(18)
939.6 3	0.30 17	¹³³ Sb(2.5 m)	1096.22(43.0), 817.8(18.5), 2755(12.5)
939.6 5	0.017 6	²¹⁴ Bi(19.9 m)	609.312(44.8), 1764.494(15.36), 1120.287(14.80)
939.64 6	0.140 7	¹¹⁹ I(19.1 m)	257.52(87), 635.86(2.69), 320.53(2.17)
939.7 7	0.73 17	¹²⁹ Sb(4.40 h)	812.8(43), 914.6(20.0), 544.7(17.9)
• 939.7 5	0.12 6	¹⁶⁹ Lu(34.06 h)	960.622(23.4), 191.2137(20.6), 1449.74(9.92)
939.8 5	0.39 8	¹²¹ Xe(40.1 m)	252.7(13), 132.8(10.9), 445.2(7.7)
• 939.8 5	0.0038 9	¹⁵¹ Pm(28.40 h)	340.08(23), 167.75(8.3), 275.21(6.8)
939.87 15	0.009 3	²²⁸ Ac(6.15 h)	911.205(26.6), 968.971(16.2), 338.322(11.3)
939.9 2	0.43 5	⁹⁰ Br(1.92 s)	707.05(38.0), 1362.32(11.2), 655.17(7.7)
• 940.0 5	1.0×10^{-4} 4	⁹⁹ Mo(65.94 h)	739.50(12.1), 181.063(6.08), 140.511(4.52)
940.0 15	0.50 15	¹³⁸ Pr(2.12 h)	1037.8(101), 788.742(100), 302.7(80)
940.0 3	†6.6 10	¹⁵⁹ Yb(1.58 m)	166.16(†500), 177.12(†159), 390.20(†113)
940.07 29	0.09 3	¹³⁷ Nd(38.5 m)	75.5(17.0), 580.6(13), 306.60(10.0)
940.1 15	†4.1	²⁵⁶ Es(7.6 h)	861.8(†100), 231.1(†61), 172.6(†49)
940.2	†0.7	¹³¹ Pr(1.53 m)	266.13(†100), 72.82(†64), 387.56(†38)
940.28 14	0.28 8	¹⁵⁸ Eu(45.9 m)	944.09(25), 977.131(13.6), 79.5104(11)
940.3 3	3.75 22	⁹⁷ Pd(3.10 m)	265.26(56), 475.2(26.7), 792.70(13.8)
940.3 5	0.54 6	¹³⁶ Nd(50.65 m)	108.90(32), 40.2(18.9), 574.8(10.4)
940.3 3	0.11 3	¹⁵³ Dy(6.4 h)	80.723(11.10), 213.754(10.90), 99.659(10.51)
• 940.3 3	5.0×10^{-8} 5	²³⁹ Pu(24110 y)	51.624(0.007100), 38.661(0.000500), 129.297(0.00631)
940.4 4	0.30 3	⁷⁵ Kr(4.3 m)	132.43(67), 154.66(20.8), 153.15(8.0)
• 940.40 20	1.12 10	⁹⁹ Rh(16.1 d)	528.24(33), 353.05(30.0), 89.65(29.0)
940.4 3	0.046 16	¹⁰³ Tc(54.2 s)	346.380(17.5), 136.079(16.6), 562.90(7.0)
940.4 5	0.35 7	¹⁰³ Cd(7.3 m)	1461.81(12), 1448.70(5.55), 1079.90(5.44)
940.5 3	0.34 5	¹²⁰ Xe(40 m)	25.1(30), 72.6(9), 178.1(6.8)
940.51 10		⁷² Ga(14.10 h)	834.01(96), 2201.69(25.9), 629.95(24.8)
• 940.51 10	0.0207 24	⁷² As(26.0 h)	834.01(80), 629.95(7.92), 1463.95(1.107)
940.516 25	0.304 9	¹⁵⁵ Dy(9.9 h)	226.918(68.4), 184.564(3.37), 1089.8(>2.8)
940.62 3	0.506 17	¹⁶³ Tm(1.810 h)	104.320(18.6), 69.229(11.6), 241.305(10.9)
940.63 6	2.62 13	¹¹³ Sb(6.67 m)	497.96(80), 332.41(14.8), 88.25(2.7)
940.7 3	0.114 5	²³⁵ Pu(25.3 m)	49.10(2.36), 756.4(0.479), 34.23(0.23)
940.8 6	0.15 5	⁸⁷ Br(55.60 s)	1419.71(22.0), 1476.04(7.9), 1577.60(6.0)
940.8 3	0.7 3	¹⁰² Zr(2.9 s)	599.60(13.9), 535.30(10.6), 64.50(8.9)
940.87 5	0.266 23	¹³² La(4.8 h)	464.55(76), 567.14(15.7), 1909.91(9.0)
940.9 3	1.12 20	¹⁰⁰ Cd(49.1 s)	936.55(66), 139.71(6.7), 582.5(6.3)
940.9 2	0.100 15	¹⁸³ Ir(58 m)	392.52(10.4), 228.70(6.9), 87.67(5.6)
941.0 3	0.086 9	⁸⁵ Y(4.86 h)	231.67(22.8), 2123.8(5.0), 767.40(3.6)
941.0 2	†1.23 14	¹⁶⁰ Ho(5.02 h)	728.18(†100), 879.383(†65.9), 962.317(†59.1)
941.0 2	0.58 6	¹⁶⁰ Ho(25.6 m)	728.18(46.9), 879.383(26.6), 962.317(25.6)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
941.0 3	0.134 18	¹⁶¹ Er(3.21 h)	826.6(3.0), 211.15(12.2), 592.6(3.7)
941.0 5	†3.4 5	¹⁸⁰ Au(8.1 s)	153.3(†100), 524.3(†29), 257.6(†26)
941.0 5	0.10 5	²⁰⁴ Bi(11.22 h)	899.15(98), 374.72(82), 984.02(59)
941.0 10	0.25 17	²⁴⁵ Pu(10.5 h)	327.428(25.4), 560.13(5.4), 308.222(4.9)
941.05 13	†6.7 10	¹⁸⁹ Hg(7.6 m)	320.99(†100), 78.21(†63), 565.42(†48)
941.09 11		²⁰⁴ Bi(11.22 h)	899.15(98), 374.72(82), 984.02(59)
941.1 4	2.5 4	⁸⁵ Se(31.7 s)	345.2(<0.23), 3396.6(7.4), 1427.2(7.0)
941.2 1	0.173 14	⁷⁹ Rb(22.9 m)	688.1(23), 182.77(19.2), 143.41(13.9)
941.2 1	3.2 3	¹¹⁹ Cd(2.69 m)	292.9(36.8), 343.0(16.9), 1609.7(10.9)
941.2 1	0.56 5	¹¹⁹ Cd(2.20 m)	1025.0(24.8), 2021.3(22.6), 720.7(17.9)
941.23 4	15	¹⁷⁵ Tm(15.2 m)	514.868(65), 363.942(12.7), 982.45(10.2)
941.25 8	0.230 16	¹³⁸ Xe(14.08 m)	258.411(31.5), 434.562(20.3), 1768.26(16.7)
• 941.26	0.16	¹⁴⁶ Eu(4.59 d)	747.2(98), 633.03(43), 634.07(37)
• 941.27 5	1.02 4	¹³¹ Te(30 h)	773.67(49.9), 852.21(27.0), 793.75(18.10)
• 941.38 5	0.54 2	²³⁸ Np(2.117 d)	984.45(27.8), 1028.54(20.3), 1025.87(9.6)
941.38 5	2.24 14	²³⁸ Am(98 m)	962.77(28), 918.69(23.0), 561.11(10.9)
941.4 2	20.7 4	¹⁷⁰ Ho(2.76 m)	258.2(37.0), 931.3(36.1), 181.6(23.8)
941.4 3	0.62 5	¹⁹⁸ Tl(5.3 h)	411.8044(82), 675.8874(11), 636.4(10.1)
941.41 7	0.67	¹³⁷ I(24.5 s)	1218.00(12.8), 601.05(4.80), 1302.64(4.42)
• 941.420 7	7.0×10 ⁻⁵ 1	¹¹⁵ Cd(53.46 h)	336.240(45.9), 527.900(27.45), 492.3(8.03)
• 941.420 7	0.00024 2	¹¹⁵ Cd(44.6 d)	933.8(2.000), 1290.580(0.890), 484.470(0.290)
941.5 4	5.5 6	⁹⁰ Mo(5.67 h)	257.34(78), 122.370(64.2), 203.13(6.4)
941.6 3	72	⁹⁵ Rh(5.02 m)	1352.0(20.8), 677.6(5.80), 1494.7(5.0)
941.6 11	0.061 9	¹⁰⁵ Cd(55.5 m)	961.84(4.69), 346.870(4.20), 1302.459(3.98)
941.6 5	0.55 16	¹¹⁷ Ag(72.8 s)	135.4(23), 337.7(10.3), 157.1(7.9)
941.6 3	0.0033 3	²²³ Fr(21.8 m)	50.13(36.0), 79.72(9.1), 234.81(3.0)
• 941.6 3	†0.0045 7	²²⁷ Th(18.72 d)	235.971(†813), 50.13(†528), 256.25(†463)
941.6 4	1.6 3	²³² Np(14.7 m)	327.3(52), 819.187(33.3), 866.760(24.4)
941.7 1	0.00068 4	¹⁰⁴ Rh(4.34 m)	555.796(0.13), 767.72(0.0065), 1237.2(0.0042)
941.7 1	25.0 23	¹⁰⁴ Ag(69.2 m)	555.796(92.6), 767.72(65.7), 926.2(12.5)
941.72 5	38.3 10	²⁸ Mg(20.91 h)	30.6383(95), 1342.27(52.6), 400.56(36.6)
941.8 2	0.06 6	¹⁰¹ Zr(2.1 s)	119.3(10.8), 205.6(6.0), 912.2(3.48)
941.8 2	0.050 8	¹⁴³ Ba(14.33 s)	211.475(25), 798.79(15.6), 980.45(11.55)
941.8 3	0.974 22	¹⁷⁷ Yb(1.911 h)	150.392(20.3), 1080.21(5.6), 1241.2(3.47)
941.8 4	1.0 3	¹⁸¹ Os(105 m)	238.75(44), 826.77(20), 118.03(12.9)
941.86 5	1.34 4	⁹⁰ Kr(32.32 s)	1118.69(39.0), 121.82(35.5), 539.49(30.8)
941.9 8	0.0078	²³³ Th(22.3 m)	86.477(2.7), 29.374(2.5), 459.222(1.4)
941.94 20	0.42 5	²⁰⁵ At(26.2 m)	719.30(31), 669.41(8.6), 628.88(5.6)
941.94 10	0.045 7	²³⁴ Pa(6.70 h)	131.30(18), 946.00(13.4), 883.24(9.6)
941.94 10	†2.49×10 ³	²³⁴ Pa(1.17 m)	1001.03(†837000), 766.38(†294000), 742.81(†80000)
• 941.94 10	0.248 15	²³⁴ Np(4.4 d)	1558.31(18.72), 1527.21(11.2), 1601.80(9.1)
• 941.94 10	4.7×10 ⁻⁷ 5	²³⁸ Pu(87.74 y)	43.498(0.0395), 99.853(0.00735), 152.720(0.000937)
941.95 2	0.36 12	²⁴⁴ Am(26 m)	1084.181(0.37), 1062.953(0.28), 1041.278(0.19)
942 3	>1.2	⁷⁷ Sr(9.0 s)	146.94(86.1), 160.10(9.2), 144.82(6.8)
942.0 2	0.26 6	¹⁵⁷ Er(18.65 m)	53.05(24), 391.32(14.2), 121.57(10.1)
942.0 2	0.17 5	¹⁷³ Ta(3.14 h)	172.2(18), 69.70(5.9), 90.3(5.0)
942.0 2	0.24 3	¹⁸³ Ir(58 m)	392.52(10.4), 228.70(6.9), 87.67(5.6)
942.03 12	0.59 3	¹⁴⁷ Pr(13.4 m)	77.9921(15), 314.675(13.2), 641.380(10.0)
942.09 7	1.19 20	²⁰² Bi(1.72 h)	960.67(99), 422.18(83.7), 657.49(60.6)
942.1 4	26 7	⁶² Mn(0.88 s)	876.8(90), 1299.0(25), 1815.0(21)
942.1 5	1.43 17	⁷⁰ As(52.6 m)	1039.20(81), 1114.1(21.8), 668.3(21.8)
942.1 5	†1.8 8	¹⁹³ Tl(21.6 m)	324.37(†100), 1044.7(†59), 676.10(†48)
• 942.177 7	0.185 5	¹⁴⁷ Eu(24.1 d)	197.299(27), 121.220(22.9), 677.516(9.8)
942.2 4	2.8 3	¹³⁰ Sb(6.3 m)	839.49(100), 793.53(86), 182.36(41)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
942.2 2	0.31 6	¹³³ Te(12.5 m)	312.072(62), 407.63(27.1), 1333.21(10.67)
942.20 20	0.48 4	¹⁶³ Yb(11.05 m)	860.28(10.1), 63.62(6.5), 123.21(1.98)
942.2	†69 16	¹⁸⁹ Tl(2.3 m)	333.7(†100), 451.0(†49), 522.3(†27)
942.20 10	34 3	¹⁹⁰ Pb(1.2 m)	151.19(8.92), 598.3(8.0), 142.2(7)
• 942.21 6	5.09 6	¹¹⁹ Te(4.70 d)	153.59(66), 1212.73(66), 270.53(28.0)
942.3 5	>0.19	⁷⁶ Br(16.2 h)	559.101(74), 657.041(15.9), 1853.67(14.7)
942.39 10	0.096 9	²⁴⁰ Np(7.22 m)	554.60(20.9), 597.40(11.7), 1496.9(1.33)
942.4 2	6.4 5	¹⁹⁶ Bi(308 s)	1049.21(87), 689.00(35.5), 776.6(9.1)
942.4 2	0.87 6	²³⁶ Pa(9.1 m)	642.35(37.0), 687.59(9.9), 1762.7(6.0)
• 942.45 15	0.211 7	¹⁷⁰ Lu(2.00 d)	84.2551(4.256), 1280.25(3.450), 2041.88(1.434)
942.47 7	1.26 6	⁷⁴ Ga(8.12 m)	595.847(91), 2353.46(44.5), 608.353(14.3)
942.5 3	0.38 6	⁸⁸ Br(16.5 s)	775.28(63), 802.14(13.13), 1440.69(4.72)
942.5 4	1.07 20	¹⁵⁹ Er(36 m)	624.5(33), 649.1(23.4), 205.92(9.7)
942.5 1	0.45 3	²⁰⁸ Fr(59.1 s)	635.8(10), 778.5(6.8), 325.3(5.2)
942.6 4	0.00057 14	¹⁰⁶ Rh(29.80 s)	511.842(20), 621.94(9.93), 1050.39(1.56)
942.61 22	0.08 5	¹³⁹ Xe(39.68 s)	218.59(56), 296.53(21.7), 174.97(11.3)
942.77 11	†5.4 5	¹⁸⁴ Ir(3.09 h)	263.97(†100), 119.80(†45), 390.38(†38)
942.8 1	0.97 8	¹³⁰ La(8.7 m)	357.4(81.0), 550.7(25.9), 908.0(17.0)
942.8 3	†5.2 7	¹⁵³ Yb(4.2 s)	547.4(†100), 674.1(†61), 369.6(†32)
942.80 11	18.8 17	¹⁸² Hf(61.5 m)	799.64(9.4), 114.3152(6.2), 339.65(5.6)
942.87 12	1.82 13	¹¹⁵ Te(5.8 m)	723.569(30), 1380.58(23.0), 1326.83(22.7)
942.88 11	0.101 22	¹⁸⁴ Ta(8.7 h)	414.03(72), 252.848(43), 920.932(32.0)
942.89 32	0.10 3	¹³⁷ Nd(38.5 m)	75.5(17.0), 580.6(13), 306.60(10.0)
942.9 3	0.019 4	¹⁴³ La(14.2 m)	620.3(2.34), 643.75(1.55), 621.4(1.52)
942.91 8	0.66 3	¹³⁸ I(6.49 s)	588.825(56), 875.23(9.2), 2262.19(3.86)
942.95 42	0.14 3	¹⁴¹ Xe(1.73 s)	909.23(24.0), 118.705(16.1), 105.937(9.8)
942.97 17	0.0031 10	¹⁴⁹ Nd(1.728 h)	211.309(25.9), 114.314(19.2), 270.166(10.7)
943 1	0.06 4	¹³³ Te(12.5 m)	312.072(62), 407.63(27.1), 1333.21(10.67)
943.0 3	0.10 3	¹⁵³ Dy(6.4 h)	80.723(11.10), 213.754(10.90), 99.659(10.51)
• 943.05 6	0.23 4	¹⁸² Re(64.0 h)	229.3220(26), 67.75001(22.2), 1121.3007(22.0)
943.1 2		²²³ Rn(23.2 m)	591.8(†100), 635.2(†76), 416.0(†55)
943.17 7	0.414 15	¹⁵¹ Nd(12.44 m)	116.80(43.4), 255.68(16.4), 1180.89(14.8)
943.2	0.80 4	¹⁴¹ Ba(18.27 m)	190.328(46.0), 304.194(25.4), 276.948(23.4)
943.3 3	>0.9	⁸³ Se(22.3 m)	356.687(70), 510.17(43), 224.8(32.7)
943.3 3	14.9 8	¹⁰⁴ In(1.8 m)	658.0(100), 834.1(99), 878.1(29.4)
943.3 4	0.017 6	²¹⁴ Bi(19.9 m)	609.312(44.8), 1764.494(15.36), 1120.287(14.80)
943.33 9	†8.7 7	⁹³ Tc(43.5 m)	2644.55(†42.7), 3129.0(†6.4), 1492.45(†5.7)
943.36 19	0.22 3	²⁰⁸ Rn(24.35 m)	426.78(7.07), 251.05(5.02), 350.026(3.34)
943.4 3	0.87 4	⁸³ Se(22.3 m)	356.687(70), 510.17(43), 224.8(32.7)
943.4 1	47	¹³¹ Sb(23.03 m)	933.1(26.1), 642.30(23), 1123.6(9.2)
943.4 1	0.298 14	¹⁴⁶ Ba(2.22 s)	140.7(20.2), 251.2(19.6), 121.2(14.2)
943.5 3	0.16 4	¹⁰¹ Mo(14.61 m)	191.92(19), 590.91(16.4), 1012.47(12.8)
943.5 5	0.32 13	¹²¹ Ag(0.78 s)	314.55(32.1), 353.43(19.9), 500.61(9.3)
943.5 3	0.049 10	¹²³ Xe(2.08 h)	148.9(49), 178.1(14.9), 330.2(8.6)
943.5	†7	²³⁸ Pa(2.3 m)	1015.3(†<100), 1014.6(†<100), 635.18(†88)
943.54 15	†3.6 4	¹⁶⁵ Lu(10.74 m)	132.49(†100), 120.60(†100), 174.25(†47.0)
943.55 28	0.74 7	¹⁰⁵ In(5.07 m)	131.37(41), 260.21(15.7), 604.11(9.2)
943.6 5	0.052 16	⁸³ Y(7.08 m)	35.50(0.44), 882.1(6.30), 489.90(5.53)
943.60 8	0.88 5	¹⁸⁶ Ir(16.64 h)	296.911(64.0), 137.155(42), 434.849(34.4)
• 943.6		¹⁸⁸ Ir(41.5 h)	155.032(29.7), 2214.62(18.7), 632.99(18)
943.70 9	0.57 4	¹³³ Ce(4.9 h)	477.22(39), 510.36(20.7), 58.39(19.2)
943.74 4	19.9 20	¹¹⁸ I(8.5 m)	605.71(99), 600.71(92), 614.42(65)
943.8 5	†2.9 10	¹⁴² Xe(1.22 s)	571.83(†100), 657.05(†79), 538.24(†77)
943.8 2	0.179 21	²²⁴ Fr(3.30 m)	215.985(33.1), 131.613(16.3), 836.90(9.8)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
943.93 14	0.20 3	¹⁸³ Au(42.0 s)	161.18(9.4), 214.13(5.9), 313.08(5.0)
944.0 5	0.13 4	¹¹¹ Pd(5.5 h)	70.44(8.3), 391.25(5.4), 632.80(3.6)
• 944	0.008 5	¹⁵⁰ Eu(35.8 y)	333.971(96), 439.401(80.4), 584.274(52.6)
944.02 9	†4.0 3	¹⁸⁴ Ir(3.09 h)	263.97(†100), 119.80(†45), 390.38(†38)
944.07 10	2.43 7	⁹⁶ Rh(9.90 m)	832.57(100), 685.49(95.7), 631.71(74.5)
944.07 10	0.78 12	⁹⁶ Rh(1.51 m)	832.57(39), 1098.51(8.9), 1692.2(7.0)
944.08 20	†37	¹⁵⁴ Nd(25.9 s)	151.703(†800), 799.55(†600), 180.693(†510)
944.09 5	25	¹⁵⁸ Eu(45.9 m)	977.131(13.6), 79.5104(11), 897.60(10.3)
• 944.09 5	44	¹⁵⁸ Tb(180 y)	962.06(20.3), 79.5104(11.6), 181.930(9.9)
944.1 2	0.9	¹⁴⁶ Cs(0.343 s)	181.02(57.0), 557.76(9.18), 332.38(6.44)
944.1 1	0.20 11	¹⁵² Pm(7.52 m)	244.6989(78), 121.7824(45), 340.48(31.3)
• 944.1	0.0073 20	²⁰⁶ Po(8.8 d)	1032.26(32.9), 511.36(24.1), 286.410(23.8)
• 944.104 7	7.76 9	⁴⁸ V(15.9735 d)	983.517(99.98), 1312.096(97.5), 2240.375(2.41)
944.12 7	1.4 1	⁸⁷ Br(55.60 s)	1419.71(22.0), 1476.04(7.9), 1577.60(6.0)
944.13 14	0.021 4	¹³¹ La(59 m)	108.081(25.0), 417.783(18.0), 365.162(16.9)
944.19 15	0.165 16	⁸⁹ Kr(3.15 m)	220.948(20.1), 586.03(16.6), 904.27(7.2)
944.199 15	0.098 8	²²⁸ Ac(6.15 h)	911.205(26.6), 968.971(16.2), 338.322(11.3)
944.2 1	†2.2 3	¹⁵⁸ Ho(11.3 m)	218.21(†100.0), 98.91(†70), 945.7(†37)
944.2 4	†1.71 24	²⁰¹ Po(15.3 m)	890.1(†100), 240.1(†71.0), 904.2(†54.8)
944.21 8	0.062 14	¹³⁰ I(12.36 h)	536.09(99), 668.54(96), 739.48(82)
944.21 10	0.032 10	¹⁵⁷ Eu(15.18 h)	63.929(23.0), 410.723(17.5), 370.509(11.0)
944.24 11	0.034 4	¹⁵⁵ Dy(9.9 h)	226.918(68.4), 184.564(3.37), 1089.8(>2.8)
944.3 2	1.16 11	¹⁰¹ Ag(11.1 m)	261.0(53), 588.0(10.0), 667.3(9.8)
944.3 10	0.050 21	¹⁴⁰ Cs(63.7 s)	602.345(71.1), 908.25(11.6), 1200.25(6.39)
• 944.35 7	1.331 9	¹⁵⁶ Eu(15.19 d)	811.79(9.70), 88.9667(8.4), 1230.68(7.98)
• 944.38 7	0.0067 10	¹⁷¹ Lu(8.24 d)	739.78(47.8), 19.394(13.7), 667.404(11.04)
944.4 3	†1.0 5	¹³¹ Pr(1.53 m)	266.13(†100), 72.82(†64), 387.56(†38)
944.4 2	0.044 18	¹⁴⁹ Tb(4.118 h)	352.24(29.43), 164.98(26.4), 388.57(18.37)
944.5 3	0.167 12	⁸⁵ Y(4.86 h)	231.67(22.8), 2123.8(5.0), 767.40(3.6)
944.5 3	2.3 10	¹¹⁴ Rh(1.85 s)	332.9(87), 519.8(48.4), 618.7(31)
944.5 2	0.112 12	¹²⁹ Ba(2.23 h)	6.545(23.7), 214.30(13.4), 220.83(8.54)
944.5 3	†0.8 2	¹³⁸ Pm(3.24 m)	520.9(†100), 729.0(†37.8), 493.1(†21.6)
944.5 3	0.0103 21	¹⁶² Tb(7.60 m)	260.070(37.2), 807.53(42.8), 888.20(38.7)
944.5 3	0.16 5	¹⁶² Ho(67.0 m)	185.005(28.6), 1220.0(22.5), 282.864(11.3)
944.51 24	0.34 6	⁸⁸ Nb(14.5 m)	1082.53(103), 1057.01(100), 671.20(64)
• 944.56 10	0.138 5	⁸³ Sr(32.41 h)	762.65(30), 381.53(14.1), 418.37(4.41)
944.6 5	0.047 19	⁹⁸ Nb(51.3 m)	787.374(93), 722.645(73.8), 1168.830(17.8)
944.6 4	0.063 9	¹²⁰ Xe(40 m)	25.1(30), 72.6(9), 178.1(6.8)
944.6 6	0.009 4	¹³⁷ Pr(1.28 h)	836.7(1.8), 433.9(1.28), 514.0(1.08)
944.6	0.32	¹⁴⁵ Ba(4.31 s)	96.6(17), 91.9(7), 65.9(5)
944.6 3	0.82 8	²²⁶ Fr(48 s)	253.73(22.3), 186.05(16.3), 253.9(2.5)
944.6 5	0.079 24	²²⁷ Fr(2.47 m)	90.035(39), 585.804(29.5), 64.267(14.5)
944.68 2	0.22 6	¹⁴⁵ Cs(0.594 s)	175.36(20), 198.93(10.9), 112.46(10.71)
944.7 4	36.6 20	⁹⁰ Tc(49.2 s)	1054.3(100), 948.1(100), 809.8(34.3)
944.7 5	0.30 5	¹²¹ Xe(40.1 m)	252.7(13), 132.8(10.9), 445.2(7.7)
944.7 3	0.114 5	²³⁵ Pu(25.3 m)	49.10(2.36), 756.4(0.479), 34.23(0.23)
944.75 28	0.47 3	⁹⁹ Nb(2.6 m)	97.785(7), 253.50(3.64), 2641.3(3.64)
944.79 20	0.38 22	¹⁷⁵ Tm(15.2 m)	514.868(65), 941.23(15), 363.942(12.7)
• 944.8 1	0.055 5	¹⁷⁷ Ta(56.56 h)	112.9498(7.2), 208.3664(0.94), 1057.8(0.29)
944.8 1	37.8 18	²⁴² Np(5.5 m)	785.7(60), 159.0(19.2), 265.1(14.4)
944.85 4	0.0427 18	¹⁵⁹ Ho(33.05 m)	121.012(36.2), 131.973(23.6), 309.594(17.2)
944.9 3	0.11 3	¹⁸⁸ Hg(3.25 m)	66.7(63), 190.1(4.40), 82.7(2.6)
944.92 4	0.294 14	⁸⁸ Kr(2.84 h)	2392.11(34.6), 196.301(25.98), 2195.842(13.18)
945.0 3	2.7 3	⁹² Ru(3.65 m)	213.81(96), 259.32(92), 134.57(65.5)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
945.0	2.2 3	⁹⁵ Sr(23.90 s)	685.6(23), 2717.3(4.6), 2933.1(4.1)
945.0 3	0.11 3	¹⁵³ Dy(6.4 h)	80.723(11.10), 213.754(10.90), 99.659(10.51)
945.02 11	0.80 8	¹⁹⁷ Pb(43 m)	385.85(74), 387.72(25.1), 222.45(24.6)
945.1 4	†0.7 4	¹⁰³ Nb(1.5 s)	102.64(†100), 641.1(†55), 538.5(†34.0)
945.1 1	†3.4 7	¹⁷² Ir(2.0 s)	227.8(†100.0), 378.4(†62.0), 448.4(†40.5)
945.1 4	0.30 15	¹⁸⁵ Au(4.25 m)	310.6(13), 243.1(6.6), 77.7(6)
945.18 20	0.20 4	¹²⁶ In(1.60 s)	1141.11(55.9), 3344.61(21.6), 969.61(14.9)
945.18 20	1.0 2	¹²⁶ In(1.64 s)	1141.11(100), 908.58(99), 111.79(88)
945.2 2	0.61 11	¹³³ Te(55.4 m)	912.671(55.28), 647.51(19.4), 863.955(15.6)
945.2 5	0.47 11	¹⁶⁴ Tb(3.0 m)	168.838(25.4), 754.80(23.3), 215.07(21)
945.2 5	0.051 17	²⁴⁵ Pu(10.5 h)	327.428(25.4), 560.13(5.4), 308.222(4.9)
• 945.23 3	0.86 3	¹⁵³ Tb(2.34 d)	212.038(31.0), 170.504(6.8), 109.758(6.4)
945.27 3	0.869 22	¹⁶³ Tm(1.810 h)	104.320(18.6), 69.229(11.6), 241.305(10.9)
945.3 5	0.30 7	¹²³ Cs(5.94 m)	97.3(23), 596.7(10.1), 83.3(4.1)
945.4 5	0.11 3	⁶¹ Fe(5.98 m)	1205.07(44), 1027.42(42.7), 297.90(22.2)
945.4 4	0.14 5	¹²² Cs(21.0 s)	331.1(48), 512.0(3.8), 817.9(3.09)
945.4 3	0.22 3	¹⁴⁹ Dy(4.20 m)	100.8(15.2), 789.4(11.8), 1776.3(11.1)
945.4 1	0.239 20	²⁴⁹ Es(102.2 m)	379.5(40.4), 813.2(9.2), 375.1(3.3)
945.5 3	0.34 5	¹²⁷ In(1.09 s)	1597.7(49), 646.1(6.2), 805.1(5.6)
945.5 40	0.082 24	¹⁴⁰ Xe(13.60 s)	805.52(20), 1413.66(12.2), 1315.05(8.2)
945.5 5	0.015 15	¹⁵¹ Nd(12.44 m)	116.80(43.4), 255.68(16.4), 1180.89(14.8)
945.5 8	0.81 19	¹⁵⁷ Tm(3.63 m)	455.00(9.3), 385.5(8.8), 348.40(8.4)
945.6	†1.0 2	¹⁷⁸ Ir(12 s)	266.1(†100.0), 131.6(†79), 363.1(†39.9)
945.6 8	<0.006	²²⁸ Pa(22 h)	911.205(4.19), 463.005(1.250), 964.770(4.25)
945.67 3	1.53 8	¹¹⁷ Cd(2.49 h)	273.349(28), 1303.27(18.4), 344.459(17.9)
945.7 1	†37 4	¹⁵⁸ Ho(11.3 m)	218.21(†100.0), 98.91(†70), 948.8(†34.5)
945.7 1	1.09 10	²⁰⁰ Po(11.5 m)	671.0(34.0), 617.7(19.7), 434.4(9.3)
• 945.7	†6×10 ⁰² 3	²⁴¹ Am(432.2 y)	59.537(†60), 26.345(†1000×10 ⁹), 33.195(†6000×10 ⁸)
945.73 20	0.0307 11	⁷⁷ Ge(11.30 h)	264.44(54), 211.03(30.8), 215.50(28.6)
945.78 23	0.0081 14	¹²² I(3.63 m)	564.119(18), 692.794(1.325), 793.278(1.297)
945.80 3	0.0215 18	¹⁴⁹ Nd(1.728 h)	211.309(25.9), 114.314(19.2), 270.166(10.7)
945.8 4	0.41 4	¹⁵⁴ Tb(21.5 h)	123.071(26), 1274.436(10.5), 2187.10(9.9)
945.9 3	4.2 7	¹²² Cs(4.5 m)	331.1(94), 497.1(79), 638.5(63)
945.9 3	0.15 8	²⁵¹ Cm(16.8 m)	542.7(10.9), 530.0(1.62), 389.7(1.28)
945.96 8	7.4 6	²⁰¹ Pb(9.33 h)	331.19(79), 361.27(9.9), 907.56(5.7)
946.0 2	0.019 3	¹¹⁹ I(19.1 m)	257.52(87), 635.86(2.69), 320.53(2.17)
946.0 5	0.0008 3	¹³⁰ I(9.0 m)	536.09(16), 586.05(1.07), 1614.10(0.447)
946 1	>0.35	¹³⁷ Pm(2.4 m)	177.5(40.29), 108.6(35), 233.6(29.57)
946.0 5	0.031 13	¹³⁸ Cs(33.41 m)	1435.795(76.3), 462.796(30.7), 1009.78(29.8)
946.0 2	0.49 4	¹⁵² Tb(4.2 m)	344.281(20.8), 411.115(18.8), 471.9(12.2)
946.0 5	10.8 6	¹⁹⁹ Bi(27 m)	560.1(22.0), 424.85(22), 841.7(11)
946.00 3	13.4 8	²³⁴ Pa(6.70 h)	131.30(18), 883.24(9.6), 569.5(8.2)
946.00 3	†9.9×10 ³ 10	²³⁴ Pa(1.17 m)	1001.03(†837000), 766.38(†294000), 742.81(†80000)
• 946.00 3	0.432 26	²³⁴ Np(4.4 d)	1558.31(18.72), 1527.21(11.2), 1601.80(9.1)
• 946.00 3	>9.0×10 ⁻⁸	²³⁸ Pu(87.74 y)	43.498(0.0395), 99.853(0.00735), 152.720(0.000937)
946 2	†80	²⁴³ Bk(4.5 h)	755(†100), 840(†30), 87.4
• 946.046 6	0.0695 6	¹²⁹ Cs(32.06 h)	371.918(30.60), 411.490(22.31), 548.945(3.40)
946.1 6	0.120 24	¹⁴¹ Xe(1.73 s)	909.23(24.0), 118.705(16.1), 105.937(9.8)
946.2 3	0.14 3	⁷⁵ Br(96.7 m)	286.572(88), 141.3147(6.6), 427.883(4.4)
946.2 3	0.018 4	⁸⁵ Br(2.90 m)	802.41(2.56), 924.63(1.63), 919.06(0.65)
946.2 2	0.43 17	¹⁰⁵ Mo(35.6 s)	85.4(25.0), 76.50(19.3), 147.8(14.8)
946.2 2	†410 43	¹⁵⁷ Ho(12.6 m)	279.97(†47600), 341.16(†37000), 193.41(†15200)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
946.2 2	$\dagger 17.7$ 25	$^{158}\text{Ho}(11.3 \text{ m})$	218.21($\dagger 100.0$), 98.91($\dagger 70$), 945.7($\dagger 37$)
946.3 3	$\dagger 0.18$ 5	$^{160}\text{Ho}(5.02 \text{ h})$	728.18($\dagger 100$), 879.383($\dagger 65.9$), 962.317($\dagger 59.1$)
• 946.3 3	0.006 3	$^{195}\text{Hg}(41.6 \text{ h})$	261.75(30.9), 560.27(7), 387.87(2.15)
946.3 2	0.08 3	$^{230}\text{Ac}(122 \text{ s})$	454.95(8), 508.20(5.15), 1243.9(3.50)
• 946.3	8.0×10^{-6}	$^{253}\text{Es}(20.47 \text{ d})$	41.79(0.050), 389.11(0.0264), 387.1(0.00810)
946.4 8	0.67 20	$^{90}\text{Mo}(5.67 \text{ h})$	257.34(78), 122.370(64.2), 203.13(6.4)
946.40 7	0.018 4	$^{183}\text{Os}(13.0 \text{ h})$	381.768(89.6), 114.463(20.63), 167.844(8.81)
946.46 8	0.114 8	$^{139}\text{Cs}(9.27 \text{ m})$	1283.23(8.3), 627.24(1.78), 1420.66(0.91)
946.5 3	0.06 3	$^{139}\text{Xe}(39.68 \text{ s})$	218.59(56), 296.53(21.7), 174.97(11.3)
946.5 7	0.23 4	$^{172}\text{Ta}(36.8 \text{ m})$	214.02(46), 95.23(17.5), 1109.27(12.4)
946.57 8	0.0072 10	$^{166}\text{Tm}(7.70 \text{ h})$	778.817(18.9), 2052.36(17.2), 184.410(16.1)
946.6	$\dagger 0.55$ 7	$^{135}\text{Pm}(49 \text{ s})$	198.5($\dagger 100$), 207.2($\dagger 70$), 463.5($\dagger 62$)
946.63 20	0.063 13	$^{138}\text{Xe}(14.08 \text{ m})$	258.411(31.5), 434.562(20.3), 1768.26(16.7)
946.69 13	0.129 5	$^{87}\text{Kr}(76.3 \text{ m})$	402.586(49.6), 2554.8(9.2), 845.43(7.34)
946.7 5	0.056 19	$^{98}\text{Nb}(51.3 \text{ m})$	787.374(93), 722.645(73.8), 1168.830(17.8)
946.7 1	5.0 14	$^{211}\text{Rn}(14.6 \text{ h})$	674.1(45), 1362.9(32.5), 678.4(28.9)
946.8 11	31.5 18	$^{31}\text{Mg}(230 \text{ ms})$	1613.0(36), 1626.1(24.8), 666.1(10.6)
946.8 10	0.40 11	$^{77}\text{Rb}(3.75 \text{ m})$	66.52(57), 178.99(22.2), 393.37(9.7)
946.8 5	0.045 9	$^{151}\text{Tb}(17.609 \text{ h})$	287.357(28.3), 251.863(26.3), 108.088(24.3)
946.8 7	0.027 13	$^{165}\text{Yb}(9.9 \text{ m})$	80.11(49), 68.86(9.1), 1090.28(4.4)
946.8 4	0.47 24	$^{201}\text{Pb}(9.33 \text{ h})$	331.19(79), 361.27(9.9), 945.96(7.4)
946.9 4	0.09	$^{142}\text{La}(91.1 \text{ m})$	641.285(47), 2397.8(13.3), 2542.7(10.00)
• 946.98 8	0.129 13	$^{188}\text{Ir}(41.5 \text{ h})$	155.032(29.7), 2214.62(18.7), 632.99(18)
• 946.989 18	0.00822 24	$^{121}\text{Te}(154 \text{ d})$	1102.149(2.54), 37.138(0.94), 998.291(0.0796)
947 1	1.0 3	$^{60}\text{Zn}(2.38 \text{ m})$	670.3(64), 61.4(26), 273.4(10.9)
947	0.16	$^{147}\text{Tb}(1.83 \text{ m})$	1397.0(79), 1797.1(14), 1643.0(1.2)
947 1	1.5 3	$^{168}\text{Lu}(6.7 \text{ m})$	198.82(28), 979.22(20), 896.12(15)
947.06 5	0.67 6	$^{179}\text{Re}(19.5 \text{ m})$	430.221(28), 289.968(26.9), 1680.244(13.0)
947.09 10	1.40 12	$^{148}\text{Pr}(2.27 \text{ m})$	301.702(61), 1357.78(5.5), 1023.18(4.8)
947.1 1	2.09 11	$^{93}\text{Y}(10.18 \text{ h})$	266.9(7.3), 1917.8(1.55), 680.2(0.658)
947.1 3	0.28 6	$^{151}\text{Dy}(17.9 \text{ m})$	386.10(19.4), 49.46(18.0), 546.31(14.3)
947.1 11	0.20 12	$^{175}\text{Ta}(10.5 \text{ h})$	207.4(14.0), 348.5(12.0), 266.9(10.8)
947.10 5	1.72 8	$^{208}\text{At}(1.63 \text{ h})$	686.527(98), 660.040(89), 177.595(48.6)
947.2 3	2.7 3	$^{92}\text{Ru}(3.65 \text{ m})$	213.81(96), 259.32(92), 134.57(65.5)
947.2 6	0.044 14	$^{132}\text{I}(2.295 \text{ h})$	667.718(99), 772.60(75.6), 954.55(17.6)
947.2 2	0.035 9	$^{173}\text{Ta}(3.14 \text{ h})$	172.2(18), 69.70(5.9), 90.3(5.0)
947.2 3	0.22 7	$^{181}\text{Re}(19.9 \text{ h})$	365.57(56), 360.70(20), 639.30(6.4)
947.2 2	0.070 8	$^{224}\text{Fr}(3.30 \text{ m})$	215.985(33.1), 131.613(16.3), 836.90(9.8)
• 947.24 10	0.042 3	$^{206}\text{Po}(8.8 \text{ d})$	1032.26(32.9), 511.36(24.1), 286.410(23.8)
947.27 14	49 3	$^{108}\text{Rh}(6.0 \text{ m})$	433.937(88), 581.1(60), 901.31(28)
947.3 3	0.082 9	$^{112}\text{Ag}(3.130 \text{ h})$	617.27(43), 1387.67(5.4), 606.49(3.1)
947.3 5	0.113 25	$^{121}\text{Xe}(40.1 \text{ m})$	252.7(13), 132.8(10.9), 445.2(7.7)
947.3 5	0.062 14	$^{151}\text{Tb}(17.609 \text{ h})$	287.357(28.3), 251.863(26.3), 108.088(24.3)
947.3	0.15	$^{159}\text{Er}(36 \text{ m})$	624.5(33), 649.1(23.4), 205.92(9.7)
947.3 17		$^{199}\text{Pb}(12.2 \text{ m})$	366.90(7), 382.8, 2751.9
947.31 12	0.85 6	$^{107}\text{In}(32.4 \text{ m})$	204.97(47), 505.51(11.9), 320.92(10.2)
947.4 5	0.50 8	$^{97}\text{Pd}(3.10 \text{ m})$	265.26(56), 475.2(26.7), 792.70(13.8)
947.4	1.31 6	$^{150}\text{Pr}(6.19 \text{ s})$	130.2(32), 722.5(7.0), 852.7(6.1)
947.4 3	1.2 4	$^{152}\text{Ho}(49.5 \text{ s})$	647.2(92), 613.8(88.4), 683.3(88)
947.4 1	16.2 18	$^{211}\text{Rn}(14.6 \text{ h})$	674.1(45), 1362.9(32.5), 678.4(28.9)
947.45 20	0.20 4	$^{205}\text{At}(26.2 \text{ m})$	719.30(31), 669.41(8.6), 628.88(5.6)
• 947.46 15	0.292 6	$^{156}\text{Eu}(15.19 \text{ d})$	811.79(9.70), 88.9667(8.4), 1230.68(7.98)
947.5 7	0.37 8	$^{84}\text{Br}(31.80 \text{ m})$	881.610(42), 1897.761(14.7), 3927.5(6.8)
947.6 4	0.058 19	$^{90}\text{Kr}(32.32 \text{ s})$	1118.69(39.0), 121.82(35.5), 539.49(30.8)

• $t_{1/2} > 1 \text{ d}$

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
947.6 1	0.0050 6	¹²⁷ Cs(6.25 h)	411.95(62.8), 124.70(11.37), 462.31(5.07)
947.6 2	†0.96 8	¹²⁹ Ba(2.17 h)	182.30(†100), 1459.1(†50.0), 202.38(†33.7)
947.6 2	0.8 3	¹⁹⁶ Bi(308 s)	1049.21(87), 689.00(35.5), 776.6(9.1)
947.6 2	†0.23 9	¹⁹⁶ Bi(240 s)	1049.21(†21.1), 371.93(†20.8), 689.00(†19.2)
947.67 2	1.951 19	⁹⁵ Tc(20.0 h)	765.794(93.82), 1073.71(3.74), 869.60(0.317)
947.7 2	1.62 15	²³⁴ Pa(6.70 h)	131.30(18), 946.00(13.4), 883.24(9.6)
947.72 20	0.49 9	¹²² In(1.5 s)	1140.55(29), 2759.13(3.1), 1013.34(2.7)
947.73 7	9.2 5	⁸⁹ Rb(15.15 m)	1031.94(58), 1248.19(42.6), 2196.02(13.3)
947.75 24	0.00053 6	¹⁶¹ Gd(3.66 m)	360.94(0.59), 314.92(22.7), 102.315(13.9)
• 947.80 15	0.157 5	¹⁷⁰ Lu(2.00 d)	84.2551(4.256), 1280.25(3.450), 2041.88(1.434)
• 947.835 15	0.959 14	¹⁴⁹ Gd(9.28 d)	149.735(48.2), 298.634(28.6), 346.651(23.9)
947.86 16	0.010 5	⁶¹ Cu(3.333 h)	282.956(12.2), 656.008(10.77), 67.412(4.23)
947.86 4	4.01 19	¹³⁴ I(52.6 m)	847.025(95.4), 884.090(64.9), 1072.547(15.0)
947.90 10	1.17 5	²⁰⁷ Po(5.80 h)	992.33(59.3), 742.64(28.2), 911.79(16.95)
947.9 4	0.30 9	²⁰⁷ Rn(9.25 m)	344.53(46), 747.15(14.2), 402.68(11.9)
947.984 11	0.109 8	²²⁸ Ac(6.15 h)	911.205(26.6), 968.971(16.2), 338.322(11.3)
948.0 7	0.008 4	¹⁰¹ Pd(8.47 h)	296.29(19), 590.44(12.06), 269.67(6.43)
• 948.0	0.011	¹⁴⁶ Eu(4.59 d)	747.2(98), 633.03(43), 634.07(37)
948.0 1	0.44 9	¹⁸⁸ Tl(71 s)	412.7(88), 592.0(61), 504.2(23.3)
• 948.0 3	0.068 11	¹⁹⁰ Ir(11.78 d)	186.718(52.4), 605.24(39.9), 518.55(34.0)
948.0 15	†4	²²³ Rn(23.2 m)	591.8(†100), 635.2(†76), 416.0(†55)
948.0 8	0.0075	²³³ Th(22.3 m)	86.477(2.7), 29.374(2.5), 459.222(1.4)
948.0 2	0.09 3	²⁴² Np(2.2 m)	735.93(5), 780.44(2.76), 1473.1(2.34)
• 948.03 7	0.00069 23	⁷⁷ Br(57.036 h)	238.996(23), 520.639(22.4), 297.215(4.16)
948.04 4	0.854 14	¹⁰⁵ Cd(55.5 m)	961.84(4.69), 346.870(4.20), 1302.459(3.98)
948.1 2	78 10	⁹⁰ Tc(8.7 s)	
948.1 2	100	⁹⁰ Tc(49.2 s)	1054.3(100), 944.7(36.6), 809.8(34.3)
948.1 1	0.38 3	¹⁰⁷ Ru(3.75 m)	194.05(9.9), 847.93(5.3), 462.61(3.66)
948.1 4	0.05 3	¹⁸⁵ Au(4.25 m)	310.6(13), 243.1(6.6), 77.7(6)
• 948.29 4	2.16 12	¹⁹⁴ Au(38.02 h)	328.455(60), 293.545(10.2), 1468.91(6.3)
• 948.3 3	0.022 12	¹⁵³ Tb(2.34 d)	212.038(31.0), 170.504(6.8), 109.758(6.4)
948.3 5	0.25	¹⁸⁶ Ta(10.5 m)	197.93(50), 214.87(42.3), 510.82(37.5)
948.37 10	0.67 5	²⁰⁷ At(1.80 h)	814.41(44.5), 588.33(19.2), 300.654(12.8)
948.4 5	0.288 20	⁹⁹ Nb(2.6 m)	97.785(7), 253.50(3.64), 2641.3(3.64)
948.4 3	0.59 15	¹²⁷ In(1.09 s)	1597.7(49), 646.1(6.2), 805.1(5.6)
948.4 3	2.73 25	¹²⁷ In(3.66 s)	252.3(38), 3074(2.85), 832.8(1.98)
948.41 30	0.08 4	¹⁹⁵ Tl(1.16 h)	563.52(10.5), 884.47(10.0), 1363.88(8.4)
948.46 10	0.172 19	¹⁴⁶ La(6.27 s)	258.47(64), 924.58(7.45), 702.28(6.43)
948.49 5	1.17 6	⁹¹ Rb(58.4 s)	93.628(33.7), 2564.19(12.5), 3599.67(10.4)
948.5 5	0.027 5	¹¹⁵ Ag(20.0 m)	229.08(18), 212.80(4.4), 472.70(4.0)
948.5 6	0.268 12	¹⁶¹ Er(3.21 h)	826.6(3.0), 211.15(12.2), 592.6(3.7)
948.5 6	0.141 20	¹⁶³ Yb(11.05 m)	860.28(10.1), 63.62(6.5), 123.21(1.98)
948.5 2	0.24 3	¹⁸³ Ir(58 m)	392.52(10.4), 228.70(6.9), 87.67(5.6)
948.542 4	2.26 3	¹³¹ Te(25.0 m)	149.716(69), 452.323(18.18), 1146.96(4.95)
948.6 5	0.30 8	¹¹⁷ I(2.22 m)	325.9(75), 274.4(20.4), 661.5(5.1)
948.6 2	0.097 9	¹⁴³ La(14.2 m)	620.3(2.34), 643.75(1.55), 621.4(1.52)
948.6		¹⁴⁴ La(40.8 s)	397.440(94.3), 541.20(39.2), 844.8(22.3)
948.6 1	0.047 6	¹⁴⁵ Ce(3.01 m)	724.33(59), 62.54(13.33), 1148.03(9.15)
948.6 3	†4.8 19	¹⁵⁵ Nd(8.9 s)	180.574(†100), 418.99(†75), 955.08(†50)
948.7 10	0.25 5	²⁰⁹ Rn(28.5 m)	408.32(50.3), 745.78(22.8), 337.45(14.5)
• 948.71 3	0.0880 14	¹⁷¹ Lu(8.24 d)	739.78(47.8), 19.394(13.7), 667.404(11.04)
• 948.72 7	0.35 3	¹⁵¹ Pm(28.40 h)	340.08(23), 167.75(8.3), 275.21(6.8)
948.8 1	†34.5 10	¹⁵⁸ Ho(11.3 m)	218.21(†100.0), 98.91(†70), 945.7(†37)
948.85 11		¹⁰² Nb(1.3 s)	397.69, 847.37, 551.54

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
948.85 11	17.6 20	¹⁰² Nb(4.3 s)	296.611(79), 1633.10(41), 551.54(30)
948.9 5	0.34 12	¹⁵⁸ Tm(3.98 m)	192.13(62), 335.10(16.8), 1149.83(7.6)
948.9 6	0.09 3	¹⁹² Au(4.94 h)	316.50791(58.0), 295.95827(22.3), 2236.89(5.6)
948.98 7	0.23 2	¹⁸³ Os(9.9 h)	1101.94(49.0), 1107.92(22.36), 1034.85(6.02)
949.0 4	1.47 22	¹⁰⁹ In(4.2 h)	203.5(74), 623.7(5.5), 1148.9(4.3)
949.0 1	0.071 14	¹⁴⁶ Ba(2.22 s)	140.7(20.2), 251.2(19.6), 121.2(14.2)
949.0 12	0.19 12	¹⁷⁵ Ta(10.5 h)	207.4(14.0), 348.5(12.0), 266.9(10.8)
949.05 15	0.074 15	¹⁵¹ Nd(12.44 m)	116.80(43.4), 255.68(16.4), 1180.89(14.8)
• 949.08 10	1.609 15	¹⁵⁶ Tb(5.35 d)	534.318(66.6), 199.2132(40.9), 1222.36(31.00)
949.09 17	0.53 4	¹⁰³ Cd(7.3 m)	1461.81(12), 1448.70(5.55), 1079.90(5.44)
949.09 8	†2.44 17	¹⁸⁸ Au(8.84 m)	265.63(†100), 340.04(†23.9), 605.5(†16.3)
949.1 3	†7.3 12	¹²⁰ Cs(64 s)	322.4(†100), 473.5(†30), 553.4(†19.1)
949.1 1	10.6 3	¹⁴² Ba(10.6 m)	255.300(20.5), 1204.3(14.23), 895.2(13.9)
949.2 3	0.27 7	¹²¹ Cs(155 s)	153.9(15.2), 239.6(7.7), 427.1(3.63)
949.2 3	0.21 5	¹²¹ Cs(122 s)	179.4(30.2), 196.0(24.1), 459.7(12.0)
949.2 3	0.66 17	¹³³ Te(55.4 m)	912.671(55.28), 647.51(19.4), 863.955(15.6)
949.2 3	†0.7 2	¹⁵² Yb(3.1 s)	482.4(†100), 141.7(†13), 316.9(†7)
949.2 6	0.18 6	¹⁶¹ Tm(33 m)	45.54(5.00), 1648.1(9.50), 84.40(9.4)
949.24 5	1.04 7	⁷⁹ Ga(2.847 s)	464.79(24.2), 516.41(21.5), 1187.28(12.8)
949.3 3	0.00036 6	²²³ Fr(21.8 m)	50.13(36.0), 79.72(9.1), 234.81(3.0)
949.35 65	0.064 21	¹⁴⁰ Cs(63.7 s)	602.345(71.1), 908.25(11.6), 1200.25(6.39)
949.4 5	0.19 5	⁸⁸ Nb(7.8 m)	1057.01(89.3), 1082.53(53.9), 399.41(45.7)
949.4 3	0.052 9	¹⁴⁷ Pr(13.4 m)	77.9921(15), 314.675(13.2), 641.380(10.0)
949.4 10	0.57 17	¹⁹¹ Hg(50.8 m)	252.5(57), 420.1(18.6), 578.6(17.6)
949.4 2	4.25 22	²²⁸ Fr(39 s)	473.7(10.2), 474.0(7.6), 410.40(6.3)
949.5 3	0.029 5	¹²³ Xe(2.08 h)	148.9(49), 178.1(14.9), 330.2(8.6)
• 949.52 25	0.19 4	¹⁰⁶ Ag(8.28 d)	511.842(88), 1045.83(29.6), 717.24(28.9)
• 949.53 5	0.077 4	¹⁴⁵ Eu(5.93 d)	893.73(66), 653.512(15.0), 1658.53(14.9)
949.59 19	0.31 4	¹⁴¹ Xe(1.73 s)	909.23(24.0), 118.705(16.1), 105.937(9.8)
• 949.590 20	0.240 6	¹⁴⁸ Eu(54.5 d)	550.284(98.5), 629.987(71.9), 611.293(20.5)
949.6 3	0.069 16	⁷⁹ Rb(22.9 m)	688.1(23), 182.77(19.2), 143.41(13.9)
949.63 8	0.22 4	¹¹⁷ Cd(2.49 h)	273.349(28), 1303.27(18.4), 344.459(17.9)
949.7 2	0.36 6	⁸¹ As(33.3 s)	467.72(20), 491.20(8.5), 521.10(1.40)
949.7 7	0.21 7	¹¹⁷ Ag(72.8 s)	135.4(23), 337.7(10.3), 157.1(7.9)
949.7 1	0.68 4	¹⁴⁵ Gd(23.0 m)	1757.9(34.2), 1880.6(32.6), 1041.8(9.9)
949.7 3	0.0142 17	¹⁵¹ Tb(17.609 h)	287.357(28.3), 251.863(26.3), 108.088(24.3)
• 949.78 7	0.0582 21	¹⁶⁵ Tm(30.06 h)	242.917(35.5), 47.155(16.9), 297.369(12.71)
949.8 3	0.966 10	⁴⁵ Ar(21.48 s)	1020.04(34.0), 3703.2(33.3), 61.35(25.0)
949.8 2	0.00134 13	¹⁰⁷ Cd(6.50 h)	93.124(1.45), 828.93(0.17), 796.462(0.0665)
949.8 4	1.0 2	¹³⁰ Sb(6.3 m)	839.49(100), 793.53(86), 182.36(41)
949.8		¹⁵⁷ Lu(5.0 s)	967.5, 880.5, 875.7
949.8 3	0.30 4	¹⁸⁴ Au(53.0 s)	162.97(50), 272.98(40), 362.47(17.5)
949.82 3	0.120 10	⁹³ Mo(6.85 h)	689.07(0.070), 541.32(0.060), 385.31(0.060)
949.99 8	0.055 6	¹⁵⁵ Dy(9.9 h)	226.918(68.4), 184.564(3.37), 1089.8(>2.8)
950.0 10	0.008 3	¹¹¹ Pd(23.4 m)	580.00(0.8), 70.44(0.78), 1459.0(0.56)
950.0	†2	¹³¹ Ce(10.3 m)	169.42(†100), 414.25(†68), 119.18(†44)
950.0 2	0.90 7	¹⁵⁰ Tb(3.48 h)	638.05(72), 496.3(14.8), 792.5(4.39)
950.00 20	0.18 3	¹⁵³ Dy(6.4 h)	80.723(11.10), 213.754(10.90), 99.659(10.51)
950.1 2	0.18 3	¹⁸³ Ir(58 m)	392.52(10.4), 228.70(6.9), 87.67(5.6)
950.1 2	0.046	¹⁸⁵ Au(4.25 m)	310.6(13), 243.1(6.6), 77.7(6)
950.14 18	†2.4 3	⁸³ Ge(1.85 s)	306.51(†100.0), 1193.77(†20.5), 1525.50(†13.6)
950.19 5	2.21 24	¹⁶⁴ Lu(3.14 m)	123.3(34.0), 740.52(12.2), 262.22(10.8)
• 950.2 4	0.006 3	⁷² As(26.0 h)	834.01(80), 629.95(7.92), 1463.95(1.107)
950.2 3	†4.0 8	¹⁸³ Hg(9.4 s)	60.5(†100), 159.91(†21), 172.70(†17)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
950.2 2	1.00 12	²⁰⁴ At(9.2 m)	684.341(95), 516.318(90), 426.253(67.5)
950.3 5	0.42	¹⁰¹ Cd(1.2 m)	98.0(47), 1722.5(11), 1259.3(8)
950.33 15	0.159 24	²⁰⁴ Bi(11.22 h)	899.15(98), 374.72(82), 984.02(59)
• 950.37 7	0.057 10	¹⁷² Lu(6.70 d)	1093.657(62.5), 900.724(29.8), 181.528(20.6)
950.4 5	0.41 16	¹¹⁹ Ag(2.1 s)	626.4(13), 366.2(12.1), 399.1(10.9)
950.4 2	0.24 7	¹⁷³ Ta(3.14 h)	172.2(18), 69.70(5.9), 90.3(5.0)
950.49 12	0.038 10	⁸⁸ Kr(2.84 h)	2392.11(34.6), 196.301(25.98), 2195.842(13.18)
950.50 24	0.71 3	¹⁵⁶ Ho(56 m)	266.35(54.7), 137.83(51), 366.25(10.73)
950.6 3	0.64 3	¹⁰⁹ Sb(17.0 s)	925.4(32), 1062.8(23.9), 664.5(20.1)
950.6 10	0.022 13	¹²⁹ Sb(4.40 h)	812.8(43), 914.6(20.0), 544.7(17.9)
• 950.6 2	0.00022 6	¹⁴⁹ Pm(53.08 h)	285.95(3.1), 859.46(0.109), 590.88(0.069)
950.77 17	7.5 4	⁷⁸ Ga(5.09 s)	619.40(77), 1186.42(20.1), 567.06(18.2)
950.8	0.39	¹⁴⁸ Dy(3.1 m)	620.24(96), 1247.2(1.4), 178.3(0.5)
950.8	0.015 15	¹⁵¹ Nd(12.44 m)	116.80(43.4), 255.68(16.4), 1180.89(14.8)
• 950.80 3	0.389 9	²⁰⁵ Bi(15.31 d)	1764.36(1.368), 703.44(31), 987.62(0.585)
950.85 20	0.082	¹³⁷ I(24.5 s)	1218.00(12.8), 601.05(4.80), 1302.64(4.42)
950.85 7	0.192 13	¹⁶³ Tm(1.810 h)	104.320(18.6), 69.229(11.6), 241.305(10.9)
950.9 3	1.9 4	¹⁴⁴ La(40.8 s)	397.440(94.3), 541.20(39.2), 844.8(22.3)
• 950.96 3	>2.9×10 ⁻⁵	⁸⁵ Sr(64.84 d)	514.0067(96), 868.5(0.0120), 151.159(0.0012)
• 950.967 18	2.755 9	¹⁶⁶ Ho(1.20×10 ³ y)	184.410(72.6), 810.276(58.08), 711.683(55.32)
• 950.987 26	0.519 7	¹⁴⁰ La(1.6781 d)	1596.210(95), 487.021(45.5), 815.772(23.28)
950.99 7	1.27 3	¹³³ Ce(4.9 h)	477.22(39), 510.36(20.7), 58.39(19.2)
951.0 4	2.0 5	⁹⁷ Sr(426 ms)	1905.0(25), 953.8(21.4), 652.2(11.4)
951	0.022 13	²¹¹ Pb(36.1 m)	404.853(3.78), 832.01(3.52), 427.088(1.76)
951.1 2	0.29	¹⁴⁰ Sm(14.82 m)	225.5(>10), 225.4(10), 140.0(5.0)
951.1 22	0.00055 6	¹⁶¹ Gd(3.66 m)	360.94(0.59), 314.92(22.7), 102.315(13.9)
951.1 5	0.23	²⁰³ Bi(11.76 h)	820.3(30), 825.2(14.6), 896.9(13)
• 951.190 10	0.00028 3	¹¹⁵ Cd(53.46 h)	336.240(45.9), 527.900(27.45), 492.3(8.03)
951.2 1	0.15 3	¹⁰⁷ Ru(3.75 m)	194.05(9.9), 847.93(5.3), 462.61(3.66)
951.3	0.0026 10	¹⁴⁹ Nd(1.728 h)	211.309(25.9), 114.314(19.2), 270.166(10.7)
951.3 6	0.028 18	¹⁶¹ Er(3.21 h)	826.6(3.0), 211.15(12.2), 592.6(3.7)
951.36 12	0.020 6	¹⁸⁹ Pt(10.87 h)	721.41(9.3), 94.33(7.6), 568.84(7.1)
951.37 10	0.0145 11	¹⁵⁹ Ho(33.05 m)	121.012(36.2), 131.973(23.6), 309.594(17.2)
951.39 2	0.330 7	¹³¹ Te(25.0 m)	149.716(69), 452.323(18.18), 1146.96(4.95)
951.39 30	0.18 5	¹⁹⁵ Tl(1.16 h)	563.52(10.5), 884.47(10.0), 1363.88(8.4)
951.4 10	0.0139 23	⁷⁹ Rb(22.9 m)	688.1(23), 182.77(19.2), 143.41(13.9)
951.46 16	0.084 13	¹⁰⁰ Sr(202 ms)	963.85(22.0), 898.50(18.9), 65.46(15.2)
951.5 5	†29 18	¹⁰⁰ Rh(4.6 m)	539.59(†5900), 687.0(†3500), 1827.2(†1410)
951.5 8	0.25 5	²⁰⁹ Rn(28.5 m)	408.32(50.3), 745.78(22.8), 337.45(14.5)
951.51 7	0.22 4	¹³³ Te(12.5 m)	312.072(62), 407.63(27.1), 1333.21(10.67)
• 951.54 9	0.029 4	⁶⁹ Ge(39.05 h)	1107.01(36), 574.17(13.3), 872.14(11.9)
• 951.6 6	0.016 12	¹⁵³ Tb(2.34 d)	212.038(31.0), 170.504(6.8), 109.758(6.4)
951.7 3	0.079 22	¹⁶⁷ Lu(51.5 m)	29.66(14.4), 239.22(8.6), 213.19(3.6)
951.7 5	0.058 22	¹⁹⁸ Tl(5.3 h)	411.8044(82), 675.8874(11), 636.4(10.1)
951.8 3	0.0102 9	⁷¹ Zn(3.96 h)	386.28(93), 487.38(62), 620.18(57)
951.8 2	†1.7 2	⁸² Ge(4.60 s)	1091.90(†100), 843.24(†9.3), 248.84(†4.0)
951.80 10	1.95 10	⁸³ Y(7.08 m)	35.50(0.44), 882.1(6.30), 489.90(5.53)
951.8 3	†3.3 6	¹⁸⁹ Hg(7.6 m)	320.99(†100), 78.21(†63), 565.42(†48)
951.8 4	0.37 14	²⁰⁷ Rn(9.25 m)	344.53(46), 747.15(14.2), 402.68(11.9)
951.85 20	0.058 13	¹⁵¹ Nd(12.44 m)	116.80(43.4), 255.68(16.4), 1180.89(14.8)
951.86 10	0.070 11	¹⁷⁶ Ta(8.09 h)	1159.28(25), 88.34(12), 1224.93(6)
951.9		¹³⁰ Pr(40.0 s)	499.0, 1405, 1282
951.9 2	0.88 8	¹⁴⁰ Xe(13.60 s)	805.52(20), 1413.66(12.2), 1315.05(8.2)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
951.9 3	0.163 20	¹⁹⁰ Re(3.2 h)	186.718(27.8), 605.24(14.9), 557.972(14.3)
• 951.9 3	0.098 16	¹⁹⁰ Ir(11.78 d)	186.718(52.4), 605.24(39.9), 518.55(34.0)
951.91 4	2.72 9	²⁰⁸ Rn(24.35 m)	426.78(7.07), 251.05(5.02), 350.026(3.34)
951.95 5	0.828 25	²³⁰ Ac(122 s)	454.95(8), 508.20(5.15), 1243.9(3.50)
• 951.95 5	1.65 14	²³⁰ Pa(17.4 d)	918.48(8.2), 454.95(6.27), 898.68(5.8)
952	>0.009	⁹⁰ Nb(14.60 h)	1129.224(92.7), 2318.968(82.03), 141.178(66.8)
952.0 3	0.028 9	¹⁰³ Tc(54.2 s)	346.380(17.5), 136.079(16.6), 562.90(7.0)
952.00 5	0.93 6	¹⁰⁹ Ru(34.5 s)	206.29(22.0), 225.98(19.6), 1929.05(13.7)
952.0	0.008 3	¹⁴⁹ Nd(1.728 h)	211.309(25.9), 114.314(19.2), 270.166(10.7)
952.0 5	0.07 4	¹⁵⁰ Tb(3.48 h)	638.05(72), 496.3(14.8), 792.5(4.39)
952.00 20	0.16 3	¹⁵³ Dy(6.4 h)	80.723(11.10), 213.754(10.90), 99.659(10.51)
• 952.02 3	0.368 17	⁸² Br(35.30 h)	776.517(83.5), 554.348(70.8), 619.106(43.4)
952.02 3	0.64 4	⁸² Rb(6.472 h)	776.517(84), 554.348(62.4), 619.106(37.976)
952.1 2	0.89 4	¹⁴¹ Sm(22.6 m)	196.88(74), 431.6(40.4), 777.6(20.3)
952.120 11	0.17 3	²¹² Bi(60.55 m)	727.330(6.58), 1620.50(1.49), 785.37(1.102)
952.123 12	1.66 18	⁷⁵ Br(96.7 m)	286.572(88), 141.3147(6.6), 427.883(4.4)
952.2 14	†2	¹³⁵ Pm(49 s)	198.5(†100), 207.2(†70), 463.5(†62)
952.2 3	2.9 4	¹⁴⁴ La(40.8 s)	397.440(94.3), 541.20(39.2), 844.8(22.3)
952.25 17	1.63 7	¹⁷² Ta(36.8 m)	214.02(46), 95.23(17.5), 1109.27(12.4)
952.3 10	0.31	¹⁵¹ Ho(35.2 s)	527.4(63), 775.53(9.2), 209.5(5.69)
952.33 8	0.14 3	¹¹⁷ Cd(2.49 h)	273.349(28), 1303.27(18.4), 344.459(17.9)
952.33 22	0.39 6	¹⁵¹ Dy(17.9 m)	386.10(19.4), 49.46(18.0), 546.31(14.3)
952.4 2	2.73 18	⁶⁰ Cu(23.7 m)	1332.501(88), 1791.6(45.4), 826.06(21.7)
952.4 6	4 3	¹⁰⁰ Nb(2.99 s)	535.60(97.0), 600.5(65.0), 1280.6(23.8)
952.4 5	†18	¹⁷⁷ Os(2.8 m)	84.7(†100), 125.4(†63), 195.8(†61)
952.44 7	1.69 6	⁹⁰ Rb(258 s)	831.69(94), 1375.36(16.7), 3317.00(14.4)
952.5 10	0.8 3	¹⁶⁴ Tb(3.0 m)	168.838(25.4), 754.80(23.3), 215.07(21)
952.5 3	0.37 4	¹⁸⁶ Ir(2.0 h)	137.155(27), 767.508(21.2), 630.354(18.0)
952.54 10	5.0 4	¹²¹ Cd(8.3 s)	2059.41(21.0), 1020.89(18.9), 987.81(13.6)
• 952.55 25	0.0417 22	¹⁷⁰ Lu(2.00 d)	84.2551(4.256), 1280.25(3.450), 2041.88(1.434)
952.58 23	0.107 20	⁹³ Sr(7.423 m)	590.238(67), 875.73(24.1), 888.13(21.8)
952.59 10	4.7	¹³⁰ In(0.32 s)	1905.17(74), 129.80(61), 1221.24(60)
952.59 10	11	¹³⁰ In(0.32 s)	1905.17(74), 129.80(61), 1221.24(60)
952.6 3	1.50 9	¹⁴⁵ Gd(23.0 m)	1757.9(34.2), 1880.6(32.6), 1041.8(9.9)
952.611 15	0.055 4	¹⁶⁸ Ho(2.99 m)	741.356(36.6), 821.164(34.5), 815.990(18.6)
952.66 15	0.74 7	⁸⁷ Br(55.60 s)	1419.71(22.0), 1476.04(7.9), 1577.60(6.0)
• 952.68 3	0.0106 4	¹⁴⁹ Gd(9.28 d)	149.735(48.2), 298.634(28.6), 346.651(23.9)
952.7 1	0.159 18	¹⁴⁹ Tb(4.118 h)	352.24(29.43), 164.98(26.4), 388.57(18.37)
952.7 5	†1.7 4	¹⁸³ Hg(9.4 s)	60.5(†100), 159.91(†21), 172.70(†17)
952.7 1	0.082 10	²³⁴ Pa(6.70 h)	131.30(18), 946.00(13.4), 883.24(9.6)
952.70 7	†21	²³⁸ Pa(2.3 m)	1015.3(†<100), 1014.6(†<100), 635.18(†88)
• 952.711 28	0.139 11	¹⁶⁵ Tm(30.06 h)	242.917(35.5), 47.155(16.9), 297.369(12.71)
952.73 11	0.50 25	¹⁸⁶ Ta(10.5 m)	197.93(50), 214.87(42.3), 510.82(37.5)
952.78 10	0.0151 14	¹⁰⁵ Ru(4.44 h)	724.21(47), 469.37(17.5), 676.36(15.7)
952.8 3	0.040 12	¹⁴³ Ba(14.33 s)	211.475(25), 798.79(15.6), 980.45(11.55)
• 952.8 1	0.00087 9	¹⁴⁹ Pm(53.08 h)	285.95(3.1), 859.46(0.109), 590.88(0.069)
• 952.82 15	0.09 4	¹¹⁹ Te(4.70 d)	153.59(66), 1212.73(66), 270.53(28.0)
952.9 4	0.20 3	⁷⁵ Kr(4.3 m)	132.43(67), 154.66(20.8), 153.15(8.0)
952.9 3	0.97 15	¹⁴⁹ Dy(4.20 m)	100.8(15.2), 789.4(11.8), 1776.3(11.1)
952.9 3	0.47 3	²²⁸ Fr(39 s)	473.7(10.2), 474.0(7.6), 410.40(6.3)
952.92 8	0.24 10	¹⁸² Hf(61.5 m)	942.80(18.8), 799.64(9.4), 114.3152(6.2)
952.93 6	1.65 10	¹⁵⁸ Eu(45.9 m)	944.09(25), 977.131(13.6), 79.5104(11)
953.0 3	0.053 14	¹³⁸ Cs(33.41 m)	1435.795(76.3), 462.796(30.7), 1009.78(29.8)
953.0 5	†1.4 3	¹⁵² Tb(17.5 h)	344.281(†1500), 586.294(†223), 271.135(†203)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
953.0 10	$\dagger 1.4$ 2	$^{182}\text{Ir}(15 \text{ m})$	273.23($\dagger 100$), 126.79($\dagger 77$), 236.3($\dagger 21.0$)
953.0 10	0.05 3	$^{195}\text{Tl}(1.16 \text{ h})$	563.52(10.5), 884.47(10.0), 1363.88(8.4)
953 2	0.017 9	$^{245}\text{Pu}(10.5 \text{ h})$	327.428(25.4), 560.13(5.4), 308.222(4.9)
953.02 5	1.19 7	$^{79}\text{Ga}(2.847 \text{ s})$	464.79(24.2), 516.41(21.5), 1187.28(12.8)
953.05 10	0.52 10	$^{204}\text{At}(9.2 \text{ m})$	684.341(95), 516.318(90), 426.253(67.5)
953.1 3	0.49 12	$^{126}\text{Ba}(100 \text{ m})$	233.6(19.6), 257.6(7.6), 241.0(6.0)
953.1 5	0.028 13	$^{138}\text{Xe}(14.08 \text{ m})$	258.411(31.5), 434.562(20.3), 1768.26(16.7)
953.18 20	0.107 16	$^{89}\text{Kr}(3.15 \text{ m})$	220.948(20.1), 586.03(16.6), 904.27(7.2)
953.18 13	0.57 4	$^{154}\text{Tb}(9.4 \text{ h})$	123.071(30), 247.925(22.1), 540.18(20)
953.18 13		$^{154}\text{Tb}(21.5 \text{ h})$	123.071(26), 1274.436(10.5), 2187.10(9.9)
953.20 20	0.78 20	$^{102}\text{Nb}(4.3 \text{ s})$	296.611(79), 1633.10(41), 551.54(30)
• 953.20 8	0.045 7	$^{150}\text{Eu}(35.8 \text{ y})$	333.971(96), 439.401(80.4), 584.274(52.6)
953.24 16	0.33 4	$^{91}\text{Kr}(8.57 \text{ s})$	108.788(43.5), 506.592(19.1), 612.87(7.7)
953.3 5	0.10 3	$^{100}\text{Ag}(2.01 \text{ m})$	665.54(99), 750.67(78), 773.20(24.2)
953.3 2	0.0226 17	$^{151}\text{Tb}(17.609 \text{ h})$	287.357(28.3), 251.863(26.3), 108.088(24.3)
953.31 7	3.52 14	$^{92}\text{Sr}(2.71 \text{ h})$	1383.93(90), 430.49(3.28), 241.56(2.92)
953.33 9	$\dagger 1.13$ 12	$^{184}\text{Ir}(3.09 \text{ h})$	263.97($\dagger 100$), 119.80($\dagger 45$), 390.38($\dagger 38$)
953.37 15	0.0151 14	$^{122}\text{I}(3.63 \text{ m})$	564.119(18), 692.794(1.325), 793.278(1.297)
• 953.41 11	0.097 9	$^{151}\text{Pm}(28.40 \text{ h})$	340.08(23), 167.75(8.3), 275.21(6.8)
953.42 16	3.6 9	$^{181}\text{Re}(19.9 \text{ h})$	365.57(56), 360.70(20), 639.30(6.4)
• 953.45 6	0.0053 14	$^{171}\text{Lu}(8.24 \text{ d})$	739.78(47.8), 19.394(13.7), 667.404(11.04)
953.53 4	4.26 12	$^{89}\text{Br}(4.40 \text{ s})$	1097.82(6.00), 997.93(4.26), 4166.3(3.8)
953.6 3	0.0220 22	$^{137}\text{Pr}(1.28 \text{ h})$	836.7(1.8), 433.9(1.28), 514.0(1.08)
953.6 2	0.024 6	$^{145}\text{Ce}(3.01 \text{ m})$	724.33(59), 62.54(13.33), 1148.03(9.15)
953.63 3	0.25 3	$^{179}\text{Re}(19.5 \text{ m})$	430.221(28), 289.968(26.9), 1680.244(13.0)
953.7 4	$\dagger 7.2$ 22	$^{193}\text{Hg}(3.80 \text{ h})$	861.11($\dagger 100$), 1118.84($\dagger 64$), 789.21($\dagger 36$)
953.8 5	0.49 10	$^{70}\text{As}(52.6 \text{ m})$	1039.20(81), 1114.1(21.8), 668.3(21.8)
953.8 4	0.051 14	$^{81}\text{Sr}(22.3 \text{ m})$	153.54(33.8), 147.76(30.1), 443.34(17.5)
953.8 3	21.4 20	$^{97}\text{Sr}(426 \text{ ms})$	1905.0(25), 652.2(11.4), 307.1(10)
953.9 4	0.17 7	$^{99}\text{Pd}(21.4 \text{ m})$	136.00(73), 263.60(15.2), 673.38(6.9)
953.9 3	0.35 3	$^{107}\text{In}(32.4 \text{ m})$	204.97(47), 505.51(11.9), 320.92(10.2)
953.9 3	0.0013 4	$^{179}\text{Lu}(4.59 \text{ h})$	214.335(11.3), 214.930(0.46), 123.3790(0.45)
953.97 8	1.24	$^{154}\text{Pm}(1.73 \text{ m})$	2057.76(17.1), 1393.9(14.4), 81.99(12.6)
954.0 5	0.27 5	$^{88}\text{Nb}(7.8 \text{ m})$	1057.01(89.3), 1082.53(53.9), 399.41(45.7)
954.00 20	16	$^{95}\text{Y}(10.3 \text{ m})$	2175.6(7.00), 3576.0(6.4), 1324.0(4.91)
• 954.0 2	1.20 10	$^{126}\text{Sb}(12.46 \text{ d})$	695.03(100), 666.331(100), 414.81(83.3)
954.0 15	0.016 3	$^{146}\text{Pr}(24.15 \text{ m})$	453.88(48.0), 1523.7(15.6), 735.72(7.5)
954.0 3	0.069 16	$^{153}\text{Dy}(6.4 \text{ h})$	80.723(11.10), 213.754(10.90), 99.659(10.51)
954.000 9	1.97 20	$^{175}\text{Tm}(15.2 \text{ m})$	514.868(65), 941.23(15), 363.942(12.7)
954.0 2	2.0 6	$^{176}\text{Re}(5.3 \text{ m})$	240.17(48), 109.08(25.0), 848.7(4.0)
• 954 1	0.16 4	$^{230}\text{Pa}(17.4 \text{ d})$	951.95(1.65), 918.48(8.2), 454.95(6.27)
954.05 13	0.509 21	$^{111}\text{Sn}(35.3 \text{ m})$	1152.98(2.7), 1914.70(1.99), 761.97(1.48)
954.10 14	0.089 6	$^{141}\text{Cs}(24.94 \text{ s})$	48.53(7.90), 561.63(4.7), 1194.02(3.95)
954.1 8	4.0 11	$^{196}\text{Pb}(37 \text{ m})$	253.1(27.0), 502.1(26.5), 366.5(11.1)
954.19 9	0.0123 11	$^{159}\text{Ho}(33.05 \text{ m})$	121.012(36.2), 131.973(23.6), 309.594(17.2)
954.3 2	0.58 8	$^{142}\text{Eu}(1.22 \text{ m})$	768.1(100), 1023.3(92.0), 556.6(86.6)
• 954.30 15	0.224 7	$^{170}\text{Lu}(2.00 \text{ d})$	84.2551(4.256), 1280.25(3.450), 2041.88(1.434)
954.4 3	0.025 12	$^{151}\text{Nd}(12.44 \text{ m})$	116.80(43.4), 255.68(16.4), 1180.89(14.8)
954.45 4	7.8 5	$^{202}\text{Bi}(1.72 \text{ h})$	960.67(99), 422.18(83.7), 657.49(60.6)
954.5 3	>0.0035	$^{65}\text{Ni}(2.5172 \text{ h})$	1481.84(24), 1115.546(15.43), 366.27(4.81)
954.5 2	0.0084 17	$^{121}\text{I}(2.12 \text{ h})$	212.189(84), 532.08(6.07), 598.74(1.47)
954.5 3	1.15 7	$^{150}\text{Tb}(3.48 \text{ h})$	638.05(72), 496.3(14.8), 792.5(4.39)
954.53 12	0.028 9	$^{105}\text{Cd}(55.5 \text{ m})$	961.84(4.69), 346.870(4.20), 1302.459(3.98)
954.55 9	17.6 5	$^{132}\text{I}(2.295 \text{ h})$	667.718(99), 772.60(75.6), 522.65(16.0)

• $t_{1/2} > 1 \text{ d}$

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
• 954.6 3	0.0018 14	⁷⁶ As(26.32 h)	559.101(45), 657.041(6.2), 1216.104(3.42)
• 954.61 3	0.0328 5	¹³¹ Ba(11.50 d)	496.326(47), 123.805(28.97), 216.078(19.66)
954.7 3	0.09 3	⁹⁹ Ag(124 s)	264.41(65), 832.29(13.5), 805.07(12.5)
954.7 2	2.0 5	¹⁰³ Zr(1.3 s)	248(100), 164.05(94), 126.30(84)
954.7 6	0.030 18	¹⁶¹ Er(3.21 h)	826.6(3.0), 211.15(12.2), 592.6(3.7)
954.7 3	0.08	²³⁸ Am(98 m)	962.77(28), 918.69(23.0), 561.11(10.9)
954.78 17	†1.8 3	¹⁸⁹ Hg(7.6 m)	320.99(†100), 78.21(†63), 565.42(†48)
• 954.8 10	0.19 5	¹⁴⁷ Gd(38.06 h)	229.32(63), 396.00(34.3), 929.01(20.2)
954.8 10	0.63 17	¹⁹¹ Hg(50.8 m)	252.5(57), 420.1(18.6), 578.6(17.6)
954.86 4	1.381 20	¹⁸³ Os(9.9 h)	1101.94(49.0), 1107.92(22.36), 1034.85(6.02)
954.9 2	†181 38	¹⁵⁷ Ho(12.6 m)	279.97(†47600), 341.16(†37000), 193.41(†15200)
954.9	0.10	¹⁸⁵ Ir(14.4 h)	254.4(13.3), 1828.8(10), 60.0(5.7)
955.0 5	5.0 8	¹⁸¹ Os(105 m)	238.75(44), 826.77(20), 118.03(12.9)
955 20	†17	¹⁸⁹ W(11.5 m)	258(†100), 417(†96), 550(†28)
955 1	0.0054	²³³ Th(22.3 m)	86.477(2.7), 29.374(2.5), 459.222(1.4)
955.08 10	†50 8	¹⁵⁵ Nd(8.9 s)	180.574(†100), 418.99(†75), 67.432(†38)
955.09 14	0.100 25	¹⁵⁵ Ho(48 m)	240.19(12.5), 136.30(5.00), 45.38(5)
955.1 3	0.36 7	⁸⁷ Br(55.60 s)	1419.71(22.0), 1476.04(7.9), 1577.60(6.0)
955.19 19	0.033 5	¹³⁹ Cs(9.27 m)	1283.23(8.3), 627.24(1.78), 1420.66(0.91)
955.2 5	0.10 3	¹⁰³ Tc(54.2 s)	346.380(17.5), 136.079(16.6), 562.90(7.0)
955.2 2	†2.2 7	¹³⁶ Pm(107 s)	373.8(†100), 602.7(†38.4), 857.2(†23.4)
955.2 3	8	¹⁴⁹ Tm(0.9 s)	796.2(18), 158.8(12.3), 416.7(11)
955.20 8	1.46 20	²⁰⁶ At(30.0 m)	700.66(98), 477.10(86), 395.54(48)
• 955.28 13	0.0188 21	¹⁶⁵ Tm(30.06 h)	242.917(35.5), 47.155(16.9), 297.369(12.71)
955.3 2	0.028 5	⁷⁹ Rb(22.9 m)	688.1(23), 182.77(19.2), 143.41(13.9)
955.3 3	0.56 9	¹⁰⁴ Ag(69.2 m)	555.796(92.6), 767.72(65.7), 941.7(25.0)
955.3 3	0.14 3	¹⁴⁶ Ba(2.22 s)	140.7(20.2), 251.2(19.6), 121.2(14.2)
• 955.3 4	0.025 9	¹⁵³ Tb(2.34 d)	212.038(31.0), 170.504(6.8), 109.758(6.4)
955.3 4	0.33 6	²⁰³ Po(36.7 m)	908.64(55), 1090.95(19.2), 893.49(18.7)
955.3 5	0.21 6	²⁰⁵ At(26.2 m)	719.30(31), 669.41(8.6), 628.88(5.6)
955.32 13	†1.1 11	²⁷ Na(301 ms)	984.64(†114), 1697.94(†15.5), 3109.2(†3.4)
955.35 20	1.04 4	⁸⁶ Y(14.74 h)	1076.64(83), 627.72(32.6), 1153.01(30.5)
955.35 8	0.0078 4	¹⁶¹ Gd(3.66 m)	360.94(0.59), 314.92(22.7), 102.315(13.9)
955.4 3	†0.93 9	¹²⁹ Ba(2.17 h)	182.30(†100), 1459.1(†50.0), 202.38(†33.7)
955.4 5	0.69 4	¹⁴¹ Sm(22.6 m)	196.88(74), 431.6(40.4), 777.6(20.3)
955.4	0.31 15	¹⁸⁵ Au(4.25 m)	310.6(13), 243.1(6.6), 77.7(6)
• 955.40 2	3.1×10^{-8} 3	²³⁹ Pu(24110 y)	51.624(0.007100), 38.661(0.000500), 129.297(0.00631)
955.5 4	<0.05	⁹⁵ Rb(377.5 ms)	352.02(49), 204.02(15.1), 680.7(14.8)
955.5 6	0.038 3	¹¹¹ Pd(23.4 m)	580.00(0.8), 70.44(0.78), 1459.0(0.56)
955.50 20	0.017 5	¹⁸⁹ Pt(10.87 h)	721.41(9.3), 94.33(7.6), 568.84(7.1)
955.6 10		¹⁹⁹ Bi(27 m)	560.1(22.0), 424.85(22), 841.7(11)
955.6 4	0.095 4	²⁰⁷ Po(5.80 h)	992.33(59.3), 742.64(28.2), 911.79(16.95)
955.7 20	0.06 3	⁸⁴ Br(31.80 m)	881.610(42), 1897.761(14.7), 3927.5(6.8)
955.7 1	0.049 4	¹¹⁹ I(19.1 m)	257.52(87), 635.86(2.69), 320.53(2.17)
955.7 2	0.35 5	¹⁸³ Ir(58 m)	392.52(10.4), 228.70(6.9), 87.67(5.6)
• 955.7	$\dagger 5.8 \times 10^{-3}$ 6	²⁴¹ Am(432.2 y)	59.537(†60), 26.345(†1000 $\times 10^9$), 33.195(†6000 $\times 10^8$)
955.71 5	0.47 3	¹⁴⁹ Tb(4.118 h)	352.24(29.43), 164.98(26.4), 388.57(18.37)
955.74 16	0.32 4	⁹¹ Kr(8.57 s)	108.788(43.5), 506.592(19.1), 612.87(7.7)
955.8 4	†3.0 6	¹⁸⁵ Pt(33.0 m)	229.60(†100), 135.3(†80), 197.4(†74)
• 955.832 5	3.84 11	¹⁴⁷ Eu(24.1 d)	197.299(27), 121.220(22.9), 677.516(9.8)
955.84 8	2.20 11	⁹⁰ Br(1.92 s)	707.05(38.0), 1362.32(11.2), 655.17(7.7)
955.84 1	1.80 6	²¹⁰ At(8.1 h)	1181.39(99.3), 245.31(79), 1483.39(46.5)
955.90 10	12.4 10	¹²⁴ In(2.4 s)	1131.64(100), 969.94(52), 1072.85(47)
956.0 2	0.064 11	¹⁰⁷ Ru(3.75 m)	194.05(9.9), 847.93(5.3), 462.61(3.66)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
956.0 3	$\dagger 22$ 3	^{147}Ho (5.8 s)	189.1($\dagger 100$), 883.9($\dagger 100$), 486.7($\dagger 61$)
956.2 3	4.2 6	^{85}Se (31.7 s)	345.2(<0.23), 3396.6(7.4), 1427.2(7.0)
956.20 25	0.51 11	^{159}Tm (9.13 m)	38.35(5.8), 84.8(5.8), 271.30(5.1)
956.22 22	0.48	^{106}Rh (131 m)	511.842(85), 1045.83(30.4), 717.24(28.9)
• 956.22 22	0.47 8	^{106}Ag (8.28 d)	511.842(88), 1045.83(29.6), 717.24(28.9)
956.3 3	4.6 5	^{127}In (1.09 s)	1597.7(49), 646.1(6.2), 805.1(5.6)
956.4 5	0.041 5	^{115}Ag (20.0 m)	229.08(18), 212.80(4.4), 472.70(4.0)
• 956.4 5	0.017 10	^{149}Gd (9.28 d)	149.735(48.2), 298.634(28.6), 346.651(23.9)
956.4 3	0.9 3	^{157}Tm (3.63 m)	455.00(9.3), 385.5(8.8), 348.40(8.4)
956.5 1	0.435 25	^{230}Ac (122 s)	454.95(8), 508.20(5.15), 1243.9(3.50)
• 956.5 1	1.6 3	^{230}Pa (17.4 d)	951.95(1.65), 918.48(8.2), 454.95(6.27)
956.6 2	0.042 15	^{95}Ru (1.643 h)	336.43(70.2), 1096.76(21.0), 626.77(17.8)
956.68 7	1.09 7	^{165}Yb (9.9 m)	80.11(49), 68.86(9.1), 1090.28(4.4)
956.7 2	0.195 19	^{71}Zn (3.96 h)	386.28(93), 487.38(62), 620.18(57)
956.7 5	0.81 22	^{104}In (1.8 m)	658.0(100), 834.1(99), 878.1(29.4)
• 956.7 4	0.040 12	^{153}Tb (2.34 d)	212.038(31.0), 170.504(6.8), 109.758(6.4)
956.7 5	7.9 22	^{172}Ho (25 s)	133.6(36), 178.0(23), 757.2(18)
956.7 4	0.06	^{186}Au (10.7 m)	191.56(62), 298.67(25.4), 764.89(10.5)
956.8 10	3.74 20	^{170}Ho (2.76 m)	258.2(37.0), 931.3(36.1), 181.6(23.8)
956.9 8	0.34 8	^{121}Cd (8.3 s)	2059.41(21.0), 1020.89(18.9), 987.81(13.6)
• 956.9 1	0.0013 4	^{143}Ce (33.039 h)	293.266(42.80), 57.356(11.7), 664.571(5.69)
956.9	$\dagger 7.5$	^{144}Gd (4.5 m)	333.3($\dagger 100$), 2432.6($\dagger 94.8$), 629.5($\dagger 32.4$)
956.9 3	6.8 3	^{154}Pr (2.3 s)	162.4(15), 932.1(11.7), 70.8(11.22)
956.9 7	0.23 4	^{154}Tb (21.5 h)	123.071(26), 1274.436(10.5), 2187.10(9.9)
956.93 12	0.040 3	^{151}Tb (17.609 h)	287.357(28.3), 251.863(26.3), 108.088(24.3)
957.00 18	$\dagger 0.69$ 4	^{71}Se (4.74 m)	147.50($\dagger 211$), 1095.26($\dagger 43.6$), 830.33($\dagger 43.2$)
957.0 10	0.012 8	^{124}Cs (30.8 s)	353.9(40), 914.8(4.0), 492.6(3.6)
957.0 3	0.40 8	^{130}La (8.7 m)	357.4(81.0), 550.7(25.9), 908.0(17.0)
957.0 10	0.103 19	^{201}Bi (108 m)	629.1(24.0), 936.2(11.3), 1014.1(10.7)
957.1 2	$\dagger 1.27$ 16	^{95}Pd (13.3 s)	1350.9($\dagger 105$), 716.6($\dagger 70.63$), 381.8($\dagger 50.8$)
957.1 10	0.0086 22	^{112}Ag (3.130 h)	617.27(43), 1387.67(5.4), 606.49(3.1)
957.2 8	0.076 14	^{107}In (32.4 m)	204.97(47), 505.51(11.9), 320.92(10.2)
957.2 1	0.39 10	^{117}Cd (3.36 h)	1997.33(26), 1065.98(23.1), 564.397(14.7)
957.2 3	0.051 11	^{153}Dy (6.4 h)	80.723(11.10), 213.754(10.90), 99.659(10.51)
957.2 4	3.0 8	^{183}Lu (58 s)	1125.3(25.0), 1056.8(16.5), 168.1(7.5)
957.25 5	1.06 7	^{79}Ga (2.847 s)	464.79(24.2), 516.41(21.5), 1187.28(12.8)
957.27 21	$\dagger 6.7$ 10	^{142}Xe (1.22 s)	571.83($\dagger 100$), 657.05($\dagger 79$), 538.24($\dagger 77$)
957.3 4	0.77 9	^{85}Zr (7.86 m)	454.20(45), 416.3(27.0), 1198.4(4.8)
957.3 5	0.4 1	^{123}In (5.98 s)	1130.5(63), 1019.7(32), 618.8(2.6)
957.3 4	0.067 6	^{139}Xe (39.68 s)	218.59(56), 296.53(21.7), 174.97(11.3)
957.3 2	$\dagger 2.12$ 21	^{185}Hg (21.6 s)	222.8($\dagger 100.0$), 258.7($\dagger 98$), 212.5($\dagger 58$)
957.33 6	$\dagger 18$	^{238}Pa (2.3 m)	1015.3($\dagger < 100$), 1014.6($\dagger < 100$), 635.18($\dagger 88$)
• 957.37 9	0.0075 9	^{110}Ag (249.79 d)	657.7622(94.0), 884.685(72.2), 937.493(34.13)
957.4 2	0.79 7	^{150}Tb (3.48 h)	638.05(72), 496.3(14.8), 792.5(4.39)
957.4 4	0.12 3	^{162}Tm (21.70 m)	102.00(17.5), 798.68(8.4), 227.52(7)
957.40 8	4.5×10^{-5} 6	^{176}Lu (3.635 h)	88.34(0.55640), 1159.28(0.00139), 1061.61(0.000762)
957.40 8	0.6	^{176}Ta (8.09 h)	1159.28(25), 88.34(12), 1224.93(6)
957.5 1	0.041 4	^{119}I (19.1 m)	257.52(87), 635.86(2.69), 320.53(2.17)
957.59 17	8	^{45}K (17.3 m)	174.276(74.4), 1705.6(53), 2353.6(14.12)
957.59 20	0.98 10	^{245}Pu (10.5 h)	327.428(25.4), 560.13(5.4), 308.222(4.9)
• 957.6 5	0.0018 9	^{76}As (26.32 h)	559.101(45), 657.041(6.2), 1216.104(3.42)
957.6 4	0.36 6	^{88}Nb (14.5 m)	1082.53(103), 1057.01(100), 671.20(64)
957.6	$\dagger 1.7$	^{152}Tb (17.5 h)	344.281($\dagger 1500$), 586.294($\dagger 223$), 271.135($\dagger 203$)
• 957.6 3	3.2×10^{-8} 3	^{239}Pu (24110 y)	51.624(0.007100), 38.661(0.000500), 129.297(0.00631)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
957.7 2	0.47 8	¹⁰⁵ Mo(35.6 s)	85.4(25.0), 76.50(19.3), 147.8(14.8)
957.7 2	†4.09 20	¹²⁹ Ba(2.17 h)	182.30(†100), 1459.1(†50.0), 202.38(†33.7)
957.70 10	5.9 5	¹⁹⁷ Pb(43 m)	385.85(74), 387.72(25.1), 222.45(24.6)
957.75 7	0.282 12	²¹⁰ Rn(2.4 h)	458.25(1.7), 648.70(0.843), 570.95(0.840)
957.8 3	1.27 22	⁷⁸ Zn(1.47 s)	224.75(43.9), 181.68(28.1), 860.30(24.5)
957.8 1	†1.80 18	¹⁷¹ Ta(23.3 m)	49.6(†100), 506.4(†54), 501.8(†22.6)
957.9 4	0.11 4	¹²⁶ In(1.60 s)	1141.11(55.9), 3344.61(21.6), 969.61(14.9)
957.9 4	0.55 20	¹²⁶ In(1.64 s)	1141.11(100), 908.58(99), 111.79(88)
957.9 4	0.36 9	¹⁴⁴ La(40.8 s)	397.440(94.3), 541.20(39.2), 844.8(22.3)
957.96 7	0.0438 25	¹²¹ I(2.12 h)	212.189(84), 532.08(6.07), 598.74(1.47)
958.0 3	0.96 10	¹²¹ Xe(40.1 m)	252.7(13), 132.8(10.9), 445.2(7.7)
• 958.0 6	0.014 6	¹⁵³ Tb(2.34 d)	212.038(31.0), 170.504(6.8), 109.758(6.4)
958.0 6	†0.63 25	¹⁷¹ Hf(12.1 h)	122.0(†100), 662.2(†83), 347.18(†47)
• 958.0 20	0.06 3	¹⁹⁴ Au(38.02 h)	328.455(60), 293.545(10.2), 1468.91(6.3)
958.0 2	0.72 8	²³⁰ Fr(19.1 s)	711.0(13.6), 129.1(11.0), 728.4(7.3)
958.0 2	0.84 9	²³⁶ Pa(9.1 m)	642.35(37.0), 687.59(9.9), 1762.7(6.0)
• 958.0 2	<1×10 ⁻⁷	²⁴⁰ Pu(6563 y)	45.242(0.0450), 104.234(0.00708), 160.308(0.000402)
958.1 3	1.31 11	¹¹⁸ I(8.5 m)	605.71(99), 600.71(92), 614.42(65)
958.1 4	<0.33	¹⁵⁴ Pm(2.68 m)	184.810(32), 81.99(15.4), 546.66(14.5)
• 958.10 12	0.0062 5	¹⁷¹ Lu(8.24 d)	739.78(47.8), 19.394(13.7), 667.404(11.04)
958.18	0.06 3	¹⁵¹ Nd(12.44 m)	116.80(43.4), 255.68(16.4), 1180.89(14.8)
958.18 4	0.65 3	¹⁵¹ Nd(12.44 m)	116.80(43.4), 255.68(16.4), 1180.89(14.8)
958.2 5	0.21 4	⁹⁸ Nb(51.3 m)	787.374(93), 722.645(73.8), 1168.830(17.8)
958.2 1		¹²⁵ La(76 s)	67.6(34), 43.6(3.5), 985.2
958.20 14	1.97 12	¹⁹⁰ Re(3.2 h)	186.718(27.8), 605.24(14.9), 557.972(14.3)
958.22 24	0.088 20	¹¹⁰ In(69.1 m)	657.7622(98), 2129.53(2.13), 2211.49(1.76)
958.23 6	3.95 6	¹⁴⁸ La(1.05 s)	158.468(55.6), 989.85(9.3), 760.30(8.6)
• 958.25 20	0.016 7	¹⁵⁰ Eu(35.8 y)	333.971(96), 439.401(80.4), 584.274(52.6)
958.5 1	0.066 5	¹⁴¹ Pm(20.90 m)	1223.26(4.74), 886.22(2.44), 193.68(1.61)
958.6 1	0.61 19	¹³¹ Sb(23.03 m)	943.4(47), 933.1(26.1), 642.30(23)
958.6 2	0.51 14	¹⁷³ Ta(3.14 h)	172.2(18), 69.70(5.9), 90.3(5.0)
958.61 5	0.29 5	²²⁸ Ac(6.15 h)	911.205(26.6), 968.971(16.2), 338.322(11.3)
958.61 5	0.6	²²⁸ Pa(22 h)	911.205(4.19), 463.005(1.250), 964.770(4.25)
958.62 4	0.26 4	⁷⁵ Br(96.7 m)	286.572(88), 141.3147(6.6), 427.883(4.4)
958.63 5	0.06 3	¹⁵² Pm(4.1 m)	121.7824(15.7), 841.586(2.17), 961.06(1.92)
• 958.63 5	0.0230 21	¹⁵² Eu(13.542 y)	121.7824(28.4), 1408.011(20.87), 964.131(14.34)
958.7 1	1.54 10	⁷⁷ Rb(3.75 m)	66.52(57), 178.99(22.2), 393.37(9.7)
958.7 3	†2.3 3	¹⁸⁹ Hg(7.6 m)	320.99(†100), 78.21(†63), 565.42(†48)
958.7 3	0.00060 15	²²³ Fr(21.8 m)	50.13(36.0), 79.72(9.1), 234.81(3.0)
• 958.7 3	†0.0039 7	²²⁷ Th(18.72 d)	235.971(†813), 50.13(†528), 256.25(†463)
958.77 15	0.19 3	²⁰⁴ Bi(11.22 h)	899.15(98), 374.72(82), 984.02(59)
958.8 2	0.37 6	⁹² Ru(3.65 m)	213.81(96), 259.32(92), 134.57(65.5)
958.8 5	13	¹⁴⁶ La(10.0 s)	258.47(93), 409.86(81), 514.75(31)
958.82 20	0.50 4	²⁰⁸ At(1.63 h)	686.527(98), 660.040(89), 177.595(48.6)
958.89 14	0.025 6	¹³¹ La(59 m)	108.081(25.0), 417.783(18.0), 365.162(16.9)
959.0 2	0.46 4	⁷⁸ As(90.7 m)	613.725(54), 694.916(16.7), 1308.59(13.0)
959.0 6	0.020 7	⁸⁵ Y(4.86 h)	231.67(22.8), 2123.8(5.0), 767.40(3.6)
959.0	0.055 14	¹⁴¹ Ba(18.27 m)	190.328(46.0), 304.194(25.4), 276.948(23.4)
959.0 3	0.040 12	¹⁴³ Ba(14.33 s)	211.475(25), 798.79(15.6), 980.45(11.55)
959.00 9	8.8 5	¹⁵⁶ Tm(83.8 s)	344.55(86), 452.85(17.2), 585.93(14.6)
959.0	0.22	¹⁸⁵ Ir(14.4 h)	254.4(13.3), 1828.8(10), 60.0(5.7)
959.0 2	0.0073 20	²⁴⁰ Np(7.22 m)	554.60(20.9), 597.40(11.7), 1496.9(1.33)
959.1 3	2.4 3	¹⁵⁴ Ho(3.10 m)	334.6(94), 412.4(79), 477.1(55)
959.1 1	1.69 12	²⁴⁰ Np(61.9 m)	566.34(25.3), 973.9(23.8), 600.57(18.4)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
• 959.1 1	0.037 4	²⁴⁰ Am(50.8 h)	987.76(73.2), 888.80(25.1), 98.860(1.5)
959.14 8	0.242 19	¹⁴⁶ La(6.27 s)	258.47(64), 924.58(7.45), 702.28(6.43)
959.14 15	0.343 20	¹⁶³ Yb(11.05 m)	860.28(10.1), 63.62(6.5), 123.21(1.98)
959.2 5	>0.06	¹³⁷ Nd(38.5 m)	75.5(17.0), 580.6(13), 306.60(10.0)
959.2 2	0.189 16	²³⁰ Ac(122 s)	454.95(8), 508.20(5.15), 1243.9(3.50)
• 959.2 2	0.44 11	²³⁰ Pa(17.4 d)	951.95(1.65), 918.48(8.2), 454.95(6.27)
959.22 5	0.007	²³⁹ U(23.45 m)	74.664(48), 43.533(4.14), 662.24(0.18)
959.24 5	0.0701 16	⁷⁷ Ge(11.30 h)	264.44(54), 211.03(30.8), 215.50(28.6)
959.35 19	0.105 21	¹⁸⁷ Au(8.4 m)	1331.81(7.0), 1408.23(3.06), 914.73(3.02)
959.36	4.7	¹⁴⁴ Tb(4.25 s)	743.0(12), 1001.6(7), 558.0(4.6)
959.4 9	0.25 14	¹⁷⁵ Ta(10.5 h)	207.4(14.0), 348.5(12.0), 266.9(10.8)
959.5 2	†13.3 27	¹⁵⁵ Nd(8.9 s)	180.574(†100), 418.99(†75), 955.08(†50)
959.5 3	0.35 4	¹⁸⁷ Au(8.4 m)	1331.81(7.0), 1408.23(3.06), 914.73(3.02)
959.5 2	0.9 6	²³² Ac(119 s)	665.0(15.3), 1899(8.9), 1959(5.4)
• 959.6 2	0.50 10	¹²⁶ Sb(12.46 d)	695.03(100), 666.331(100), 414.81(83.3)
959.6 4	0.42 9	¹⁶¹ Yb(4.2 m)	78.20(34), 599.88(25.9), 631.45(13.9)
959.6 10	0.026 20	¹⁸³ Hf(1.067 h)	783.754(66), 73.174(38), 459.069(27)
959.6 15	0.22 5	¹⁸⁶ Ir(16.64 h)	296.911(64.0), 137.155(42), 434.849(34.4)
959.66 5	0.0322 14	¹⁵⁹ Ho(33.05 m)	121.012(36.2), 131.973(23.6), 309.594(17.2)
• 959.7 3	0.063 7	¹⁵¹ Pm(28.40 h)	340.08(23), 167.75(8.3), 275.21(6.8)
959.70 7	0.24 12	²⁰² Au(28.8 s)	439.59(10.0), 1125.20(2.30), 1306.38(2.25)
• 959.70 7	0.069 6	²⁰² Tl(12.23 d)	439.59(91), 520.11(0.58)
• 959.7296 6	0.348 5	¹⁸² Ta(114.43 d)	67.75001(41.2), 1121.3007(34.9), 1221.4066(26.98)
959.7296 6	0.54 13	¹⁸² Re(12.7 h)	67.75001(38.2), 1121.3007(32), 1221.4066(24.8)
• 959.7296 6	0.20 4	¹⁸² Re(64.0 h)	229.3220(26), 67.75001(22.2), 1121.3007(22.0)
959.79 18	0.214 22	²⁰⁷ At(1.80 h)	814.41(44.5), 588.33(19.2), 300.654(12.8)
959.8 5	0.15 5	⁹⁸ Nb(51.3 m)	787.374(93), 722.645(73.8), 1168.830(17.8)
959.8 2	0.039 4	¹⁴³ Sm(66 s)	687.7(0.19)
• 959.86 9	1.962 19	¹⁵⁶ Tb(5.35 d)	534.318(66.6), 199.2132(40.9), 1222.36(31.00)
959.9 2	0.23	¹⁴⁵ La(24.8 s)	70.0(11), 355.8(3.8), 118.2(3.6)
959.9 2	0.22 7	²⁰⁵ Po(1.66 h)	872.39(37), 1001.21(28.8), 849.83(25.5)
• 959.9	<5×10 ⁻⁸	²⁴⁰ Pu(6563 y)	45.242(0.0450), 104.234(0.00708), 160.308(0.000402)
959.99 13	0.157 12	¹⁹² Au(4.94 h)	316.50791(58.0), 295.95827(22.3), 2236.89(5.6)
960.0 3	†22	¹⁵⁴ Nd(25.9 s)	151.703(†800), 799.55(†600), 180.693(†510)
960.0 10	†12.4 12	¹⁷⁰ Ho(43 s)	812.3(†100.0), 1894.5(†45.2), 78.6(†40)
960.0 10	0.46 20	¹⁸¹ Os(105 m)	238.75(44), 826.77(20), 118.03(12.9)
960.0 10	0.29 6	²⁰¹ Bi(108 m)	629.1(24.0), 936.2(11.3), 1014.1(10.7)
960.0 1	0.072 10	²³⁴ Pa(6.70 h)	131.30(18), 946.00(13.4), 883.24(9.6)
960.0 10	†9×10 ⁰² 3	²³⁴ Pa(1.17 m)	1001.03(†837000), 766.38(†294000), 742.81(†80000)
960.01 5	>0.040	²¹⁰ At(8.1 h)	1181.39(99.3), 245.31(79), 1483.39(46.5)
960.06 4	0.75 3	¹⁵³ Dy(6.4 h)	80.723(11.10), 213.754(10.90), 99.659(10.51)
960.09 7	†1.52 13	¹⁴⁸ Tb(60 m)	784.430(†119.0), 489.049(†28.0), 1079.025(†16.2)
960.09 7	†1.5	¹⁴⁸ Tb(60 m)	784.430(†119.0), 489.049(†28.0), 1079.025(†16.2)
960.1 10	3.6 14	⁷³ Kr(27.0 s)	177.8(65.8), 62.5(19.1), 454.8(15)
960.1 2	0.218 20	⁹⁵ Ru(1.643 h)	336.43(70.2), 1096.76(21.0), 626.77(17.8)
960.17 5	0.00131 8	¹⁸⁷ W(23.72 h)	685.774(27.3), 479.531(21.8), 72.001(11.14)
960.2		¹⁴⁴ Gd(4.5 m)	333.3(†100), 2432.6(†94.8), 629.5(†32.4)
960.2 5	0.14 5	¹⁴⁹ Dy(4.20 m)	100.8(15.2), 789.4(11.8), 1776.3(11.1)
960.2 3	0.0054 22	²⁴⁶ Am(25.0 m)	1078.86(27.7), 798.80(25), 1062.04(17.1)
960.29	0.03 3	¹³⁵ I(6.57 h)	1260.409(28.90), 1131.511(22.74), 1678.027(9.62)
960.3 4	15.8 10	²⁹ Mg(1.30 s)	2223.9(38), 1397.9(17.3), 1754.1(10.4)
960.4 3	0.12 6	¹⁶² Tm(21.70 m)	102.00(17.5), 798.68(8.4), 227.52(7)
960.42 10	0.32 3	⁸⁹ Kr(3.15 m)	220.948(20.1), 586.03(16.6), 904.27(7.2)
960.43 29	0.39 3	¹⁵⁶ Ho(56 m)	266.35(54.7), 137.83(51), 366.25(10.73)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
960.5 5	0.06 3	¹⁰⁹ Ru(34.5 s)	206.29(22.0), 225.98(19.6), 1929.05(13.7)
960.5 5	†1.2 4	¹¹⁰ Tc(0.92 s)	240.67(†100), 372.1(†17.0), 613.0(†16.0)
960.5 3	0.064 18	¹⁵¹ Nd(12.44 m)	116.80(43.4), 255.68(16.4), 1180.89(14.8)
• 960.55 12	1.45 3	¹⁵⁶ Eu(15.19 d)	811.79(9.70), 88.9667(8.4), 1230.68(7.98)
960.55 14	†29 4	¹⁸¹ Pt(51 s)	289.29(†100), 111.97(†100), 230.15(†92)
960.6 5	0.056 11	¹³⁹ Xe(39.68 s)	218.59(56), 296.53(21.7), 174.97(11.3)
• 960.622 20	23.4 5	¹⁶⁹ Lu(34.06 h)	191.2137(20.6), 1449.74(9.92), 889.753(5.36)
960.67 5	99	²⁰² Bi(1.72 h)	422.18(83.7), 657.49(60.6), 954.45(7.8)
960.7 1	1.68 10	¹⁰⁰ Ag(2.01 m)	665.54(99), 750.67(78), 773.20(24.2)
960.7 2	0.21 7	¹⁵⁷ Er(18.65 m)	53.05(24), 391.32(14.2), 121.57(10.1)
960.7 8	0.173 19	¹⁶⁴ Tm(5.1 m)	208.08(14.6), 314.97(10), 240.49(7.5)
960.7		¹⁶⁸ Lu(6.7 m)	198.82(28), 979.22(20), 896.12(15)
• 960.754 20	0.0922 24	⁹⁹ Mo(65.94 h)	739.50(12.1), 181.063(6.08), 140.511(4.52)
960.77 12	0.076 11	¹⁷⁶ Ta(8.09 h)	1159.28(25), 88.34(12), 1224.93(6)
960.8 8	0.0068	²³³ Th(22.3 m)	86.477(2.7), 29.374(2.5), 459.222(1.4)
960.86 20	0.34 6	¹⁵¹ Dy(17.9 m)	386.10(19.4), 49.46(18.0), 546.31(14.3)
960.9 6	0.25 21	¹⁰⁵ In(5.07 m)	131.37(41), 260.21(15.7), 604.11(9.2)
960.92 12	1.37 10	²⁰⁶ At(30.0 m)	700.66(98), 477.10(86), 395.54(48)
961.0 4	0.6	⁹⁹ Zr(2.1 s)	469.140(55), 546.13(48.6), 593.990(27.4)
961.0 20	0.032 5	¹⁴⁵ Gd(23.0 m)	1757.9(34.2), 1880.6(32.6), 1041.8(9.9)
• 961.0 6	0.15 3	¹⁵⁶ Eu(15.19 d)	811.79(9.70), 88.9667(8.4), 1230.68(7.98)
961		²³⁸ Pa(2.3 m)	1015.3(†<100), 1014.6(†<100), 635.18(†88)
961.05 20	0.32 3	²⁰⁵ At(26.2 m)	719.30(31), 669.41(8.6), 628.88(5.6)
961.055 10	1.61 6	⁷⁴ Ga(8.12 m)	595.847(91), 2353.46(44.5), 608.353(14.3)
961.06 22	1.92 9	¹⁵² Pm(4.1 m)	121.7824(15.7), 841.586(2.17), 963.37(1.83)
961.06 22	0.204 10	¹⁵² Eu(9.274 h)	841.586(14.6), 963.37(12.01), 121.7824(7.21)
961.09 4	0.017	²³⁹ U(23.45 m)	74.664(48), 43.533(4.14), 662.24(0.18)
961.2 3	49.9 12	⁵² Ca(4.6 s)	675.2(62.4), 1636.4(35.6), 2070.4(11.2)
961.2 3	0.8 1	¹⁴⁸ Ho(9.59 s)	1687.5(82.47), 660.8(58.94), 504.3(18.62)
961.2 4	0.021 5	¹⁷⁷ Yb(1.911 h)	150.392(20.3), 1080.21(5.6), 1241.2(3.47)
961.2 2	0.20 3	¹⁸³ Ir(58 m)	392.52(10.4), 228.70(6.9), 87.67(5.6)
961.2 7	0.231 22	¹⁹⁹ Bi(27 m)	560.1(22.0), 424.85(22), 841.7(11)
961.22 8	†18.3 13	¹⁸⁴ Ir(3.09 h)	263.97(†100), 119.80(†45), 390.38(†38)
961.3 5	0.08	¹⁵⁴ Pm(1.73 m)	2057.76(17.1), 1393.9(14.4), 81.99(12.6)
961.3 4	0.46 19	¹⁷⁰ Ta(6.76 m)	100.8(21.0), 221.2(15.7), 860.4(7.39)
961.3 3	0.18 4	¹⁸⁸ Hg(3.25 m)	66.7(63), 190.1(4.40), 82.7(2.6)
961.39 14	2.18 7	⁵⁵ V(6.54 s)	517.71(73), 880.70(18.1), 921.10(4.6)
961.4		¹³⁰ Pr(40.0 s)	951.9, 499.0, 1405
• 961.4 5	0.010 5	¹⁴⁸ Eu(54.5 d)	550.284(98.5), 629.987(71.9), 611.293(20.5)
961.4 2	0.202 22	¹⁶⁷ Lu(51.5 m)	29.66(14.4), 239.22(8.6), 213.19(3.6)
961.4 5	12 3	¹⁷² Ho(25 s)	133.6(36), 178.0(23), 757.2(18)
961.4 4		¹⁹² Au(4.94 h)	316.50791(58.0), 295.95827(22.3), 2236.89(5.6)
961.4 3	†16.3 14	¹⁹⁵ Bi(183 s)	807.6(†100), 831.7(†100), 776.2(†95)
961.43	0.15 3	¹³⁵ I(6.57 h)	1260.409(28.90), 1131.511(22.74), 1678.027(9.62)
961.439 20	0.44 5	⁷⁵ Br(96.7 m)	286.572(88), 141.3147(6.6), 427.883(4.4)
• 961.478 12	0.033 13	¹⁷² Lu(6.70 d)	1093.657(62.5), 900.724(29.8), 181.528(20.6)
961.5 1	4	⁹⁶ Y(9.6 s)	1750.42(89), 915.0(60), 617.1(56)
961.5 4	0.27 13	¹⁸⁵ Au(4.25 m)	310.6(13), 243.1(6.6), 77.7(6)
961.6	0.41	⁹⁵ Sr(23.90 s)	685.6(23), 2717.3(4.6), 2933.1(4.1)
961.6 6	0.29 11	¹⁰³ Cd(7.3 m)	1461.81(12), 1448.70(5.55), 1079.90(5.44)
961.61 12	0.121 22	¹⁶³ Tm(1.810 h)	104.320(18.6), 69.229(11.6), 241.305(10.9)
961.62 10	0.130 7	²⁴⁰ Np(7.22 m)	554.60(20.9), 597.40(11.7), 1496.9(1.33)
961.68 15	0.161 19	¹⁵⁸ Tm(3.98 m)	192.13(62), 335.10(16.8), 1149.83(7.6)
• 961.76 9	0.0224 24	¹²⁴ I(4.18 d)	602.730(60), 1690.980(10.41), 722.786(9.98)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
961.8 4	0.16 4	¹³³ Ce(4.9 h)	477.22(39), 510.36(20.7), 58.39(19.2)
961.83 6	0.083 10	⁸⁸ Kr(2.84 h)	2392.11(34.6), 196.301(25.98), 2195.842(13.18)
961.84 3	4.69 3	¹⁰⁵ Cd(55.5 m)	346.870(4.20), 1302.459(3.98), 607.220(3.74)
• 961.92 8	0.211 18	¹⁹⁵ Hg(41.6 h)	261.75(30.9), 560.27(7), 387.87(2.15)
962.0 5	0.05 1	⁵⁹ Cu(81.5 s)	1301.46(14.78), 877.97(11.40), 339.411(7.97)
962.0 5	0.016 8	¹¹¹ Sn(35.3 m)	1152.98(2.7), 1914.70(1.99), 761.97(1.48)
962.0 1	3.4 8	¹²⁹ Sn(6.9 m)	1161.31(56.0), 1128.44(50), 760.8(16.8)
962.0 10	†5	¹³⁵ Pm(49 s)	198.5(†100), 207.2(†70), 463.5(†62)
962.00 8	3.38	¹⁵⁴ Pm(1.73 m)	2057.76(17.1), 1393.9(14.4), 81.99(12.6)
962 1	0.010 5	²¹⁴ Bi(19.9 m)	609.312(44.8), 1764.494(15.36), 1120.287(14.80)
962.01 11	0.0030 4	⁴⁵ Ti(184.8 m)	720.22(0.154), 1408.6(0.085), 1662.4(0.041)
962.06 4	6.5 3	⁶³ Zn(38.47 m)	669.62(8), 1412.08(0.75), 449.93(0.236)
962.06 4	1.58 10	¹⁵⁸ Eu(45.9 m)	944.09(25), 977.131(13.6), 79.5104(11)
• 962.06 4	20.3 4	¹⁵⁸ Tb(180 y)	944.09(44), 79.5104(11.6), 181.930(9.9)
962.1 4	1.44 20	¹⁷⁵ Ta(10.5 h)	207.4(14.0), 348.5(12.0), 266.9(10.8)
962.1 10	†1.3	¹⁷⁹ Os(6.5 m)	65.39(†100), 218.6(†17), 32.3(†17)
962.11 23	0.096 22	¹⁰⁹ In(4.2 h)	203.5(74), 623.7(5.5), 1148.9(4.3)
962.18 15	12.0 5	¹³³ Sn(1.44 s)	5150.1(0.52), 5612.3(0.44), 4598.2(0.16)
962.2 4	0.151 25	¹²¹ Xe(40.1 m)	252.7(13), 132.8(10.9), 445.2(7.7)
962.2 4	0.38 5	¹⁴² La(91.1 m)	641.285(47), 2397.8(13.3), 2542.7(10.00)
962.2 3	0.046 5	¹⁷⁸ Lu(28.4 m)	93.180(6.0), 1340.8(3.22), 1310.05(1.40)
962.3 2	0.0120 15	⁹³ Y(10.18 h)	266.9(7.3), 947.1(2.09), 1917.8(1.55)
• 962.317 4	9.91 7	¹⁶⁰ Tb(72.3 d)	879.383(30.01), 298.580(25.51), 966.171(25.21)
962.317 4	†59.1 23	¹⁶⁰ Ho(5.02 h)	728.18(†100), 879.383(†65.9), 966.171(†54.5)
962.317 4	25.6 11	¹⁶⁰ Ho(25.6 m)	728.18(46.9), 879.383(26.6), 645.40(24.7)
962.4 5	†10 2	¹³⁰ Sn(1.7 m)	144.9(†100), 899.2(†49), 84.7(†42)
962.4 4	0.162 23	¹⁶¹ Er(3.21 h)	826.6(3.0), 211.15(12.2), 592.6(3.7)
• 962.43 7	0.124 10	¹⁰⁵ Ag(41.29 d)	344.520(41), 280.41(30.2), 644.55(11.1)
962.43 7	†<2.5×10 ²	¹⁰⁵ Ag(7.23 m)	319.14(†63000), 306.25(†12800), 442.37(†5900)
962.44 7	0.060 7	¹⁵⁵ Dy(9.9 h)	226.918(68.4), 184.564(3.37), 1089.8(>2.8)
962.5 15	0.8 4	⁷⁸ Ga(5.09 s)	619.40(77), 1186.42(20.1), 567.06(18.2)
962.5 3	0.45 5	¹⁸⁴ Au(53.0 s)	162.97(50), 272.98(40), 362.47(17.5)
962.5 4	†5 1	¹⁸⁵ Pt(33.0 m)	229.60(†100), 135.3(†80), 197.4(†74)
962.6 1	†2.78 16	¹²⁹ Ba(2.17 h)	182.30(†100), 1459.1(†50.0), 202.38(†33.7)
962.64 11	0.40 3	⁸¹ Ga(1.221 s)	216.47(37.4), 828.26(22.1), 711.18(17.6)
962.64 12	1.09 3	¹⁹⁴ Pb(12.0 m)	581.82(18.8), 1519.45(16.4), 203.82(16.2)
962.66 10	2.0 3	¹²⁶ In(1.64 s)	1141.11(100), 908.58(99), 111.79(88)
962.70 20	0.54 5	¹¹⁵ Ag(20.0 m)	229.08(18), 212.80(4.4), 472.70(4.0)
962.7 5	0.22	¹²⁵ Cd(0.57 s)	1027.53(25.8), 1173.16(25.1), 736.65(12.6)
962.7 3	0.59 8	¹⁸¹ Au(11.4 s)	198.60(4.4), 2022.4(4.2), 79.40(4.2)
962.71 4	1.44 6	⁸⁹ Br(4.40 s)	1097.82(6.00), 997.93(4.26), 953.53(4.26)
962.71 4	1.25 8	⁹⁰ Br(1.92 s)	411.49(3.88), 1097.82(0.91), 997.93(0.33)
962.74 14	0.05	¹⁷⁶ Ta(8.09 h)	1159.28(25), 88.34(12), 1224.93(6)
• 962.77 3	0.70 2	²³⁸ Np(2.117 d)	984.45(27.8), 1028.54(20.3), 1025.87(9.6)
962.77 3	28	²³⁸ Am(98 m)	918.69(23.0), 561.11(10.9), 605.13(7.6)
• 962.77 3	5.3×10 ⁻⁷ 20	²⁴² Cm(162.8 d)	44.08(0.0325), 101.90(0.0025), 157.42(0.0014)
962.80 10	0.54 3	⁸³ Y(7.08 m)	35.50(0.44), 882.1(6.30), 489.90(5.53)
962.8 1	†0.57 7	¹⁵⁸ Ho(11.3 m)	218.21(†100.0), 98.91(†70), 945.7(†37)
962.8 5	0.38 14	¹⁷⁸ Re(13.2 m)	237.3(45), 105.9(23.0), 939.1(8.9)
962.8 9	0.0014	²³³ Th(22.3 m)	86.477(2.7), 29.374(2.5), 459.222(1.4)
• 962.85 25	0.0076 9	¹⁷⁰ Lu(2.00 d)	84.2551(4.256), 1280.25(3.450), 2041.88(1.434)
962.9 4	0.0005 5	²⁴⁶ Am(25.0 m)	1078.86(27.7), 798.80(25), 1062.04(17.1)
962.96 7	0.218 22	¹⁷⁹ Re(19.5 m)	430.221(28), 289.968(26.9), 1680.244(13.0)
963	†0.7	¹³¹ Pr(1.53 m)	266.13(†100), 72.82(†64), 387.56(†38)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
• 963	0.034 5	¹⁵⁶ Eu(15.19 d)	811.79(9.70), 88.9667(8.4), 1230.68(7.98)
963.0 2	†252 48	¹⁵⁷ Ho(12.6 m)	279.97(†47600), 341.16(†37000), 193.41(†15200)
963.0 2	0.11 4	²³⁰ Ac(122 s)	454.95(8), 508.20(5.15), 1243.9(3.50)
963.01 9	†3.01 20	¹⁶² Lu(1.37 m)	166.82(†100), 631.87(†26.6), 798.76(†16.9)
963.08 11	0.055 11	⁶⁹ As(15.2 m)	232.69(11), 145.95(4.96), 86.78(3.44)
963.08 9	0.141 11	¹⁵³ Dy(6.4 h)	80.723(11.10), 213.754(10.90), 99.659(10.51)
963.1 4	1.7 7	¹⁰³ Cd(7.3 m)	1461.81(12), 1448.70(5.55), 1079.90(5.44)
963.1 3	0.16 3	¹¹² Sb(51.4 s)	1257.05(96), 990.70(14.3), 670.0(3.7)
963.1 4	3.5 17	¹⁵² Ho(161.8 s)	613.8(73), 613.8(14), 1098.0(12)
963.11 6	0.61 6	¹¹⁷ Cd(2.49 h)	273.349(28), 1303.27(18.4), 344.459(17.9)
963.19 19	†2.7 4	¹⁶⁵ Lu(10.74 m)	132.49(†100), 120.60(†100), 174.25(†47.0)
963.2 3	1.04 13	⁹⁹ Ag(124 s)	264.41(65), 832.29(13.5), 805.07(12.5)
963.2 5	>0.0044	¹³⁷ Pr(1.28 h)	836.7(1.8), 433.9(1.28), 514.0(1.08)
963.2 2	†3.4 7	¹⁸⁷ Hg(1.9 m)	233.38(†100), 376.34(†38), 240.26(†33)
963.37 1	1.83 10	¹⁵² Pm(4.1 m)	121.7824(15.7), 841.586(2.17), 961.06(1.92)
• 963.37 1	0.134 4	¹⁵² Eu(13.542 y)	121.7824(28.4), 1408.011(20.87), 964.131(14.34)
963.37 1	12.01 10	¹⁵² Eu(9.274 h)	841.586(14.6), 121.7824(7.21), 1389.00(0.770)
963.40 30	0.13	¹¹⁴ Sb(3.49 m)	1299.90(99), 887.60(17.4), 327.18(7.0)
963.5 2	1.52 13	⁹² Rb(4.492 s)	814.98(33), 2820.6(6.2), 569.8(5.6)
963.5 2	460	⁹³ Rb(5.84 s)	814.98(†27000), 569.8(†800), 393.5(†380)
963.5 4	0.105 21	¹⁸⁷ Au(8.4 m)	1331.81(7.0), 1408.23(3.06), 914.73(3.02)
963.6 4	0.16 4	¹³³ Ce(4.9 h)	477.22(39), 510.36(20.7), 58.39(19.2)
963.6 5	0.14 6	¹⁴⁰ Xe(13.60 s)	805.52(20), 1413.66(12.2), 1315.05(8.2)
963.6	0.035 18	¹⁴⁹ Tb(4.118 h)	352.24(29.43), 164.98(26.4), 388.57(18.37)
963.69 13	0.364 25	¹⁶⁷ Lu(51.5 m)	29.66(14.4), 239.22(8.6), 213.19(3.6)
963.7 8	2.6 3	⁶⁵ Co(1.20 s)	1141.7(4.0), 310.6(2.90), 1210.9(1.62)
963.7 3	0.093 25	⁸² Rb(6.472 h)	776.517(84), 554.348(62.4), 619.106(37.976)
963.7 3	3.6 3	¹²⁷ In(1.09 s)	1597.7(49), 646.1(6.2), 805.1(5.6)
963.85 4	22.0 9	¹⁰⁰ Sr(202 ms)	898.50(18.9), 65.46(15.2), 10.68(9.7)
963.85 9	0.365 17	¹⁹² Au(4.94 h)	316.50791(58.0), 295.95827(22.3), 2236.89(5.6)
963.9 3	0.074 10	⁸⁷ Br(55.60 s)	1419.71(22.0), 1476.04(7.9), 1577.60(6.0)
963.9 10	0.193 20	²⁰⁸ At(1.63 h)	686.527(98), 660.040(89), 177.595(48.6)
963.95 3	0.025 3	¹⁴⁹ Nd(1.728 h)	211.309(25.9), 114.314(19.2), 270.166(10.7)
963.96 3	†7.5 15	¹⁶⁴ Tm(2.0 m)	91.40(†1500), 1154.66(†366), 768.91(†279)
964 1	0.10 3	⁸⁹ Nb(1.9 h)	1627.20(3.4), 1833.46(3.16), 3092.7(3.0)
964.0 7	2.6 3	⁹⁸ Ag(46.7 s)	863.1(100), 678.5(85), 570.93(53)
964.0 3	0.54 5	¹²³ Xe(2.08 h)	148.9(49), 178.1(14.9), 330.2(8.6)
964.0 8	0.0015 8	¹⁴¹ La(3.92 h)	1354.52(1.64), 1693.3(0.074), 2267.0(0.0413)
• 964.0 8		¹⁴⁷ Eu(24.1 d)	197.299(27), 121.220(22.9), 677.516(9.8)
964.0 3	1.29 16	¹⁷¹ Re(15.2 s)	568.4(16.1), 102.0(9.7), 1066.0(8.1)
964.0 7	0.042 17	²⁴⁵ Pu(10.5 h)	327.428(25.4), 560.13(5.4), 308.222(4.9)
964.01 6	0.93 4	²⁰⁸ Rn(24.35 m)	426.78(7.07), 251.05(5.02), 350.026(3.34)
964.05 7	0.129 9	²¹⁰ Rn(2.4 h)	458.25(1.7), 648.70(0.843), 570.95(0.840)
964.08 3	0.38 4	²¹⁴ Bi(19.9 m)	609.312(44.8), 1764.494(15.36), 1120.287(14.80)
• 964.09 5	0.342 18	¹⁷² Tm(63.6 h)	78.7435(6.5), 1093.657(6.0), 1387.093(5.6)
964.1 5	0.0069 23	⁷⁹ Rb(22.9 m)	688.1(23), 182.77(19.2), 143.41(13.9)
964.1 7	0.019 10	¹⁰¹ Pd(8.47 h)	296.29(19), 590.44(12.06), 269.67(6.43)
964.1 2	0.34 9	¹³³ Sb(2.5 m)	1096.22(43.0), 817.8(18.5), 2755(12.5)
964.1 4	0.28 4	¹⁶¹ Tm(33 m)	45.54(5.00), 1648.1(9.50), 84.40(9.4)
964.131 9	0.058 17	¹⁵² Pm(4.1 m)	121.7824(15.7), 841.586(2.17), 961.06(1.92)
964.131 9	1.69 14	¹⁵² Pm(7.52 m)	244.6989(78), 121.7824(45), 340.48(31.3)
• 964.131 9	14.34 19	¹⁵² Eu(13.542 y)	121.7824(28.4), 1408.011(20.87), 1112.116(13.55)
964.2 4	0.058 14	⁸⁹ Kr(3.15 m)	220.948(20.1), 586.03(16.6), 904.27(7.2)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
964.2 1	0.104 9	¹¹⁹ I(19.1 m)	257.52(87), 635.86(2.69), 320.53(2.17)
• 964.22 10	0.037 4	²⁰⁶ Bi(6.243 d)	803.10(99), 881.01(66.2), 516.18(40.7)
964.30 12	0.064 10	¹⁸³ Os(9.9 h)	1101.94(49.0), 1107.92(22.36), 1034.85(6.02)
964.3 2	†85 3	²⁰¹ Po(8.9 m)	967.4(†100.0), 411.9(†33.0), 537.5(†24.8)
964.30 4	0.09	²³⁹ U(23.45 m)	74.664(48), 43.533(4.14), 662.24(0.18)
964.32 15	0.52 6	²⁰⁴ Bi(11.22 h)	899.15(98), 374.72(82), 984.02(59)
964.4 4	1.4 3	¹⁰² Ag(12.9 m)	556.52(91), 719.40(58), 1744.99(17.3)
964.4 5	0.67 8	¹¹⁷ I(2.22 m)	325.9(75), 274.4(20.4), 661.5(5.1)
964.4 5	0.20 8	¹²⁶ Ba(100 m)	233.6(19.6), 257.6(7.6), 241.0(6.0)
• 964.4 5	3.1×10^{-6} 9	¹⁴⁹ Pm(53.08 h)	285.95(3.1), 859.46(0.109), 590.88(0.069)
• 964.4 4	0.0047 9	¹⁵¹ Pm(28.40 h)	340.08(23), 167.75(8.3), 275.21(6.8)
• 964.4 4	0.030 6	¹⁵³ Tb(2.34 d)	212.038(31.0), 170.504(6.8), 109.758(6.4)
• 964.4 3	0.030 6	¹⁵³ Tb(2.34 d)	212.038(31.0), 170.504(6.8), 109.758(6.4)
• 964.479 9	0.0681 16	⁷¹ As(65.28 h)	174.954(82.00), 1095.490(4.08), 499.876(3.624)
964.5 9	0.033 24	¹⁶¹ Er(3.21 h)	826.6(3.0), 211.15(12.2), 592.6(3.7)
964.53 27	0.62 4	¹⁵⁶ Ho(56 m)	266.35(54.7), 137.83(51), 366.25(10.73)
964.57 8	0.70 7	¹⁰⁰ Sr(202 ms)	963.85(22.0), 898.50(18.9), 65.46(15.2)
964.6 3	0.5 3	⁷¹ Zn(3.96 h)	386.28(93), 487.38(62), 620.18(57)
964.6 10	3.6 4	¹⁹⁶ Tl(1.84 h)	426.0(84), 610.5(11.9), 635.5(9.8)
964.64 5	0.77 6	⁷¹ Zn(2.45 m)	511.56(32), 910.27(7.8), 389.88(3.8)
964.64 5	4.3 5	⁷¹ Zn(3.96 h)	386.28(93), 487.38(62), 620.18(57)
964.69 5	0.0176 6	¹²⁷ Cs(6.25 h)	411.95(62.8), 124.70(11.37), 462.31(5.07)
964.74 13	0.207 15	¹⁵¹ Nd(12.44 m)	116.80(43.4), 255.68(16.4), 1180.89(14.8)
964.770 10	5.11 13	²²⁸ Ac(6.15 h)	911.205(26.6), 968.971(16.2), 338.322(11.3)
964.770 10	4.25 13	²²⁸ Pa(22 h)	911.205(4.19), 463.005(1.250), 968.971(3.88)
964.89 3	0.330 17	¹³⁵ Ce(17.7 h)	265.56(41.8), 300.07(23.5), 606.76(18.8)
964.9 2	0.12 3	¹⁰⁸ In(58.0 m)	875.46(100), 632.96(100), 242.84(41)
964.9 2	58.7 12	¹²⁰ In(47.3 s)	1171.3(100), 1023.1(97.4), 197.3(80.6)
964.9 2	†7.6 15	¹³¹ Ce(10.3 m)	169.42(†100), 414.25(†68), 119.18(†44)
964.9 3	0.33 4	¹⁵⁴ Tb(9.4 h)	123.071(30), 247.925(22.1), 540.18(20)
964.9 5	0.3 1	¹⁵⁹ Er(36 m)	624.5(33), 649.1(23.4), 205.92(9.7)
964.9 3	0.13 3	¹⁸⁸ Hg(3.25 m)	66.7(63), 190.1(4.40), 82.7(2.6)
964.93 6	15.6 11	⁸⁰ Zn(0.545 s)	712.53(45.1), 715.40(33.8), 685.60(15.3)
964.97 19	0.21 7	¹⁸¹ Re(19.9 h)	365.57(56), 360.70(20), 639.30(6.4)
965.0 10	0.010 5	⁸⁵ Y(4.86 h)	231.67(22.8), 2123.8(5.0), 767.40(3.6)
965 3	0.09 3	¹⁸⁵ Ta(49.4 m)	177.59(25.7), 173.68(22.6), 65.86(3.9)
965 1	0.010 5	²¹⁴ Bi(19.9 m)	609.312(44.8), 1764.494(15.36), 1120.287(14.80)
965.01 11	0.217 17	⁹³ Kr(1.286 s)	253.42(41.2), 323.89(24.1), 266.83(20.6)
965.01 3	0.16 4	²¹⁰ At(8.1 h)	1181.39(99.3), 245.31(79), 1483.39(46.5)
• 965.1 3	0.0039 7	¹⁴⁵ Eu(5.93 d)	893.73(66), 653.512(15.0), 1658.53(14.9)
965.1 4	0.42 8	¹⁹⁰ Re(3.2 h)	186.718(27.8), 605.24(14.9), 557.972(14.3)
965.2 3	0.30 6	⁶⁰ Cu(23.7 m)	1332.501(88), 1791.6(45.4), 826.06(21.7)
965.3 3	0.82 10	¹⁵³ Tm(1.48 s)	299.3(6), 765.5(1.92), 205.2(0.61)
965.4 1	†41 23	¹⁹⁴ Bi(106 s)	1308.3(†100), 671.8(†55), 773.5(†31)
965.4 1	†100.0 15	¹⁹⁴ Bi(92 s)	575.1(†98.0), 280.1(†73.7), 421.1(†59.9)
965.40 10	0.44 4	²²⁴ Fr(3.30 m)	215.985(33.1), 131.613(16.3), 836.90(9.8)
965.5 3	1.20 12	¹²⁰ Xe(40 m)	25.1(30), 72.6(9), 178.1(6.8)
965.5 2	†50 6	¹³⁴ Pr(11 m)	293.5(†100), 299.0(†100), 1196.8(†100)
965.5 2	†50 6	¹³⁴ Pr(17 m)	1964.1(†100), 1904.3(†100), 1579.9(†100)
965.58 11	0.103 11	¹⁵³ Dy(6.4 h)	80.723(11.10), 213.754(10.90), 99.659(10.51)
965.58 10	0.0021	²³⁹ U(23.45 m)	74.664(48), 43.533(4.14), 662.24(0.18)
965.6 6	1.5 4	¹¹⁶ Cs(3.84 s)	393.5(<0.09), 524.3(76), 615.1(30.4)
965.63 5	0.53 3	¹⁴⁹ Tb(4.118 h)	352.24(29.43), 164.98(26.4), 388.57(18.37)
965.7 6	0.14 3	⁹⁹ Rh(4.7 h)	340.71(70), 617.8(12.0), 1261.2(11)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
965.8 2	0.08 6	¹¹⁷ Cd(2.49 h)	273.349(28), 1303.27(18.4), 344.459(17.9)
965.8 5	0.035 8	¹³² I(2.295 h)	667.718(99), 772.60(75.6), 954.55(17.6)
965.8 4	0.10 5	¹⁸⁵ Au(4.25 m)	310.6(13), 243.1(6.6), 77.7(6)
965.8 2	0.54 6	²³⁰ Fr(19.1 s)	711.0(13.6), 129.1(11.0), 728.4(7.3)
965.8 1	0.47 3	²³⁴ Pa(6.70 h)	131.30(18), 946.00(13.4), 883.24(9.6)
965.95 6		¹⁶⁸ Lu(5.5 m)	1483.65(†100), 228.58(†97), 111.8(†68)
965.95 6	0.77 15	¹⁶⁸ Lu(6.7 m)	198.82(28), 979.22(20), 896.12(15)
966 2	0.27 8	⁸³ Se(22.3 m)	356.687(70), 510.17(43), 224.8(32.7)
966.0 1	0.66 12	¹⁰¹ Zr(2.1 s)	119.3(10.8), 205.6(6.0), 912.2(3.48)
966.0 3	0.124 25	¹²⁹ La(11.6 m)	278.6(25), 110.5(16.9), 457.0(8.0)
• 966 1	>0.031	¹⁴⁷ Gd(38.06 h)	229.32(63), 396.00(34.3), 929.01(20.2)
966.0 5	1.5 4	¹⁶⁴ Tb(3.0 m)	168.838(25.4), 754.80(23.3), 215.07(21)
966.1 4	0.0264 8	¹⁷¹ Er(7.516 h)	308.31(64.4), 295.901(28.9), 111.621(20.5)
966.1 5	1.95 9	¹⁹⁹ Bi(27 m)	560.1(22.0), 424.85(22), 841.7(11)
• 966.171 3	25.21 15	¹⁶⁰ Tb(72.3 d)	879.383(30.01), 298.580(25.51), 1177.962(15.07)
966.171 3	†54.5 23	¹⁶⁰ Ho(5.02 h)	728.18(†100), 879.383(†65.9), 962.317(†59.1)
966.171 3	21.9 11	¹⁶⁰ Ho(25.6 m)	728.18(46.9), 879.383(26.6), 962.317(25.6)
966.2 3	9.0×10 ⁻⁵ 3	¹⁰⁹ Pd(13.7012 h)	88.04(1.171), 311.4(0.032), 647.3(0.024)
966.2	0.090 10	¹⁴¹ Pm(20.90 m)	1223.26(4.74), 886.22(2.44), 193.68(1.61)
966.2 3	0.30 6	¹⁵⁷ Sm(482 s)	197.870(56.00), 196.461(16.8), 394.351(11.93)
966.2	0.17	¹⁸⁵ Ir(14.4 h)	254.4(13.3), 1828.8(10), 60.0(5.7)
966.24 22	†1.6 3	⁸³ Ge(1.85 s)	306.51(†100.0), 1193.77(†20.5), 1525.50(†13.6)
966.24 20	0.17 4	¹⁶² Tm(21.70 m)	102.00(17.5), 798.68(8.4), 227.52(7)
966.25 11	0.034 3	¹⁵¹ Tb(17.609 h)	287.357(28.3), 251.863(26.3), 108.088(24.3)
966.3 5	0.38 7	¹⁰⁵ In(5.07 m)	131.37(41), 260.21(15.7), 604.11(9.2)
966.34 10	0.64 3	⁷⁷ Rb(3.75 m)	66.52(57), 178.99(22.2), 393.37(9.7)
966.4 10	0.038 11	⁷⁷ Ge(11.30 h)	264.44(54), 211.03(30.8), 215.50(28.6)
966.4 2	0.045 3	⁹⁶ Tc(51.5 m)	778.224(1.9), 1200.231(1.08), 480.705(0.311)
966.4 4	0.19 4	¹²¹ Xe(40.1 m)	252.7(13), 132.8(10.9), 445.2(7.7)
966.4 6	7.7 5	¹²⁹ Sb(4.40 h)	812.8(43), 914.6(20.0), 544.7(17.9)
966.4 3	†1.3 5	¹⁷¹ Hf(12.1 h)	122.0(†100), 662.2(†83), 347.18(†47)
966.45 3	0.395 23	¹³² La(4.8 h)	464.55(76), 567.14(15.7), 1909.91(9.0)
966.48 4	0.035 3	¹²⁸ Cs(3.66 m)	442.901(26.8), 526.557(2.41), 1140.079(1.168)
966.5 7	0.09 5	¹⁴⁰ Xe(13.60 s)	805.52(20), 1413.66(12.2), 1315.05(8.2)
966.6 2	0.55 13	¹⁰⁵ Mo(35.6 s)	85.4(25.0), 76.50(19.3), 147.8(14.8)
966.6 3	0.020 5	¹³⁹ Cs(9.27 m)	1283.23(8.3), 627.24(1.78), 1420.66(0.91)
966.7 5	2.7 8	¹³⁵ Nd(12.4 m)	204.02(52), 41.43(23), 441.2(14.9)
966.7 2	†8.8 9	¹⁵³ Yb(4.2 s)	547.4(†100), 674.1(†61), 369.6(†32)
966.8 2	0.22 3	⁹⁶ Rh(9.90 m)	832.57(100), 685.49(95.7), 631.71(74.5)
• 966.85 20	0.143 5	¹⁷⁰ Lu(2.00 d)	84.2551(4.256), 1280.25(3.450), 2041.88(1.434)
966.89 7	0.15	¹⁴² Cs(1.70 s)	359.598(27.2), 1326.46(12.92), 966.89(9.0)
966.89 7	9.0 8	¹⁴² Cs(1.70 s)	359.598(27.2), 1326.46(12.92), 1175.93(4.16)
966.90 5	0.36 5	¹³⁴ I(52.6 m)	847.025(95.4), 884.090(64.9), 1072.547(15.0)
966.9 2	0.91 8	²³⁶ Pa(9.1 m)	642.35(37.0), 687.59(9.9), 1762.7(6.0)
• 966.9 2	<5×10 ⁻⁸	²⁴⁰ Pu(6563 y)	45.242(0.0450), 104.234(0.00708), 160.308(0.000402)
967.0 2	0.087 17	¹¹⁹ I(19.1 m)	257.52(87), 635.86(2.69), 320.53(2.17)
967.0 2	0.18	¹⁴⁰ Sm(14.82 m)	225.5(>10), 225.4(10), 140.0(5.0)
967.0 3	†6.8 20	¹⁵⁵ Nd(8.9 s)	180.574(†100), 418.99(†75), 955.08(†50)
967.0 12	0.19 8	¹⁷⁵ Ta(10.5 h)	207.4(14.0), 348.5(12.0), 266.9(10.8)
967.0 2	†17.9 13	¹⁹⁵ Bi(183 s)	807.6(†100), 831.7(†100), 776.2(†95)
967	†<4	²³⁸ Pa(2.3 m)	1015.3(†<100), 1014.6(†<100), 635.18(†88)
967.02 3	0.88 3	¹³⁰ I(12.36 h)	536.09(99), 668.54(96), 739.48(82)
967.06 9	0.130 16	¹⁷⁶ Ta(8.09 h)	1159.28(25), 88.34(12), 1224.93(6)
967.10 20	0.95 7	⁹⁹ Pd(21.4 m)	136.00(73), 263.60(15.2), 673.38(6.9)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
967.1 2	19.3 16	¹⁰⁰ Nb(2.99 s)	535.60(97.0), 600.5(65.0), 1280.6(23.8)
967.1 3	0.23 7	¹⁰¹ Sr(118 ms)	128.34(18.0), 1124.82(10.9), 510.73(8.5)
967.1 1	†6.3 10	¹⁰³ Nb(1.5 s)	102.64(†100), 641.1(†55), 538.5(†34.0)
967.2 7	0.48 9	¹⁰⁹ Sn(18.0 m)	1099.4(30), 649.90(28.0), 1321.3(11.9)
• 967.2 6	0.014 6	¹⁵³ Tb(2.34 d)	212.038(31.0), 170.504(6.8), 109.758(6.4)
967.23 6	0.122 9	¹⁰⁵ Cd(55.5 m)	961.84(4.69), 346.870(4.20), 1302.459(3.98)
967.23 36	0.08 3	¹³⁷ Nd(38.5 m)	75.5(17.0), 580.6(13), 306.60(10.0)
967.29 35	0.104 18	¹⁶⁷ Lu(51.5 m)	29.66(14.4), 239.22(8.6), 213.19(3.6)
967.3 5	0.067 6	¹³⁹ Xe(39.68 s)	218.59(56), 296.53(21.7), 174.97(11.3)
• 967.306 17	2.70 6	¹⁴⁸ Eu(54.5 d)	550.284(98.5), 629.987(71.9), 611.293(20.5)
967.33 11	0.214 19	⁹⁰ Kr(32.32 s)	1118.69(39.0), 121.82(35.5), 539.49(30.8)
967.40 40	0.39 11	¹⁴⁸ La(1.05 s)	158.468(55.6), 989.85(9.3), 760.30(8.6)
967.4 6	0.017 17	¹⁵¹ Tb(17.609 h)	287.357(28.3), 251.863(26.3), 108.088(24.3)
967.4 5	0.034 6	¹⁷⁷ Yb(1.911 h)	150.392(20.3), 1080.21(5.6), 1241.2(3.47)
967.4 2	†3.4 4	²⁰¹ Po(15.3 m)	890.1(†100), 240.1(†71.0), 904.2(†54.8)
967.4 2	†100.0 15	²⁰¹ Po(8.9 m)	964.3(†85), 411.9(†33.0), 537.5(†24.8)
967.44 4	0.0083 10	¹⁴⁹ Nd(1.728 h)	211.309(25.9), 114.314(19.2), 270.166(10.7)
967.46 5	2.14 12	¹⁹⁵ Tl(1.16 h)	563.52(10.5), 884.47(10.0), 1363.88(8.4)
967.5 3	0.160 19	¹⁰⁷ In(32.4 m)	204.97(47), 505.51(11.9), 320.92(10.2)
967.5		¹⁵⁷ Lu(5.0 s)	949.8, 880.5, 875.7
967.5 3	†7.5 15	¹⁶⁴ Tm(2.0 m)	91.40(†1500), 1154.66(†366), 768.91(†279)
967.5 3	0.106 10	¹⁶⁴ Tm(5.1 m)	208.08(14.6), 314.97(10), 240.49(7.5)
967.58 12	0.207 15	¹⁵¹ Nd(12.44 m)	116.80(43.4), 255.68(16.4), 1180.89(14.8)
967.58 12	0.022 7	¹⁵¹ Nd(12.44 m)	116.80(43.4), 255.68(16.4), 1180.89(14.8)
967.6	0.032 9	¹⁴¹ Ba(18.27 m)	190.328(46.0), 304.194(25.4), 276.948(23.4)
967.80 9	0.26 5	²⁰⁷ At(1.80 h)	814.41(44.5), 588.33(19.2), 300.654(12.8)
• 967.89 5	0.190 9	¹⁷² Lu(6.70 d)	1093.657(62.5), 900.724(29.8), 181.528(20.6)
967.9 6	0.21 8	⁹⁷ Rh(30.7 m)	421.55(75), 840.13(12.0), 878.80(9.0)
967.94 15	0.091 13	¹⁶⁵ Yb(9.9 m)	80.11(49), 68.86(9.1), 1090.28(4.4)
968.0 2	0.38 6	⁹² Ru(3.65 m)	213.81(96), 259.32(92), 134.57(65.5)
968.0 4	0.13 4	¹⁰¹ Sr(118 ms)	128.34(18.0), 1124.82(10.9), 510.73(8.5)
968 1	>0.35	¹³⁷ Pm(2.4 m)	177.5(40.29), 108.6(35), 233.6(29.57)
• 968.0 4	0.0027 17	¹⁵² Eu(13.542 y)	121.7824(28.4), 1408.011(20.87), 964.131(14.34)
968.0 2	0.10 4	²³⁰ Ac(122 s)	454.95(8), 508.20(5.15), 1243.9(3.50)
968.1 8	0.022 11	⁷³ Se(7.15 h)	360.80(108), 67.03(78), 865.09(0.584)
968.1 2	0.172 23	⁹⁶ Rb(0.199 s)	815.0(78.00), 692.0(8.0), 813.2(7.0)
968.1 3		¹¹⁸ Ag(3.76 s)	487.77(60), 677.13(11.9), 2788.7(11.8)
968.2 4	0.024 8	⁷⁷ Kr(74.4 m)	129.64(81), 146.59(37.3), 312.0(3.7)
968.2 7	0.16 5	⁷⁸ As(90.7 m)	613.725(54), 694.916(16.7), 1308.59(13.0)
968.2 4	0.47 6	¹¹⁸ Cs(14 s)	337.4(100), 472.8(37.4), 586.6(15.4)
968.2 7	0.12 4	¹⁵⁶ Ho(56 m)	266.35(54.7), 137.83(51), 366.25(10.73)
968.2 9	0.011	²³³ Th(22.3 m)	86.477(2.7), 29.374(2.5), 459.222(1.4)
• 968.201 4	1.888 20	¹²⁴ Sb(60.20 d)	602.730(97.8), 1690.980(47.3), 722.786(10.76)
• 968.201 4	0.411 6	¹²⁴ I(4.18 d)	602.730(60), 1690.980(10.41), 722.786(9.98)
968.3 3	2.5 3	¹⁵⁴ Ho(3.10 m)	334.6(94), 412.4(79), 477.1(55)
968.3 4	0.043 12	¹⁵⁸ Tm(3.98 m)	192.13(62), 335.10(16.8), 1149.83(7.6)
968.328 7	1.07 4	¹⁹⁹ Pt(30.80 m)	542.993(15), 493.772(5.59), 317.056(4.95)
• 968.368 14	2.8×10 ⁻⁸	²³⁹ Pu(24110 y)	51.624(0.007100), 38.661(0.000500), 129.297(0.00631)
968.4 9	>0.0023	⁸¹ Rb(4.576 h)	190.38(64.0), 446.15(23.2), 510.31(5.3)
• 968.4 3	0.114 21	¹⁴⁷ Gd(38.06 h)	229.32(63), 396.00(34.3), 929.01(20.2)
968.4 2	0.14 4	¹⁵⁰ Tb(3.48 h)	638.05(72), 496.3(14.8), 792.5(4.39)
968.4 3	†14	¹⁷⁹ Os(6.5 m)	65.39(†100), 218.6(†17), 32.3(†17)
968.5 2	0.081 5	⁹⁶ Tc(51.5 m)	778.224(1.9), 1200.231(1.08), 480.705(0.311)
968.50 10	0.33 3	²²⁴ Fr(3.30 m)	215.985(33.1), 131.613(16.3), 836.90(9.8)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
968.5 7	0.034 17	²⁴⁵ Pu(10.5 h)	327.428(25.4), 560.13(5.4), 308.222(4.9)
• 968.6 5	0.050 11	¹⁴⁶ Eu(4.59 d)	747.2(98), 633.03(43), 634.07(37)
968.6 5	>0.22	¹⁸⁰ Ir(1.5 m)	276.4(56), 132.2(38.1), 699.0(13.4)
968.7	0.12	¹³³ Ce(4.9 h)	477.22(39), 510.36(20.7), 58.39(19.2)
968.7 8	†100	¹⁷⁸ Os(5.0 m)	1331.1(†94), 594.6(†72), 685.0(†65)
968.7 3	0.217 21	¹⁸⁷ Au(8.4 m)	1331.81(7.0), 1408.23(3.06), 914.73(3.02)
968.8 1	4.38 23	¹⁰⁸ In(39.6 m)	632.96(76), 1986.8(12.4), 3452.2(9.2)
968.8 2	2.7 3	¹⁰⁸ In(58.0 m)	875.46(100), 632.96(100), 242.84(41)
968.8 5	3.31 13	¹⁴⁴ La(40.8 s)	397.440(94.3), 541.20(39.2), 844.8(22.3)
968.9 2	0.46 6	⁷⁵ Zn(10.2 s)	228.67(28.9), 432.29(20.2), 155.94(17.2)
968.9 3	0.0162 23	⁷⁹ Rb(22.9 m)	688.1(23), 182.77(19.2), 143.41(13.9)
• 968.9 2	0.0146 16	¹⁵¹ Pm(28.40 h)	340.08(23), 167.75(8.3), 275.21(6.8)
968.9 4	†0.71 19	¹⁸⁹ Hg(7.6 m)	320.99(†100), 78.21(†63), 565.42(†48)
• 968.9 4	0.017 6	²³⁸ Np(2.117 d)	984.45(27.8), 1028.54(20.3), 1025.87(9.6)
968.92 7	0.0531 24	¹⁴⁵ Ce(3.01 m)	724.33(59), 62.54(13.33), 1148.03(9.15)
• 968.94 3	0.0365 19	¹³¹ Ba(11.50 d)	496.326(47), 123.805(28.97), 216.078(19.66)
968.971 10	16.2 3	²²⁸ Ac(6.15 h)	911.205(26.6), 338.322(11.3), 964.770(5.11)
968.971 10	3.88 19	²²⁸ Pa(22 h)	911.205(4.19), 463.005(1.250), 964.770(4.25)
969.0 10	0.25 6	⁷⁴ Kr(11.50 m)	89.65(31), 203.0(18.0), 296.67(9.9)
969.0		¹³⁵ Ce(17.7 h)	265.56(41.8), 300.07(23.5), 606.76(18.8)
969.0 2	†133 33	¹⁵⁷ Ho(12.6 m)	279.97(†47600), 341.16(†37000), 193.41(†15200)
969 1	0.42	¹⁶⁴ Tb(3.0 m)	168.838(25.4), 754.80(23.3), 215.07(21)
969	†<4	²³⁸ Pa(2.3 m)	1015.3(†<100), 1014.6(†<100), 635.18(†88)
969.02 21	0.057 13	¹⁰⁰ Sr(202 ms)	963.85(22.0), 898.50(18.9), 65.46(15.2)
• 969.05 20	0.058 3	¹⁷⁰ Lu(2.00 d)	84.2551(4.256), 1280.25(3.450), 2041.88(1.434)
969.05 4	0.0055 11	¹⁷³ Hf(23.6 h)	123.672(83), 296.974(33.9), 139.634(12.7)
969.07 6	2.6 3	¹⁰⁰ Nb(1.5 s)	535.60(45.7), 528.24(9.1), 159.547(8.8)
969.1 8	†0.36 7	¹²⁰ I(81.0 m)	560.44(†137), 1523.0(†21.1), 640.85(†17.1)
969.11 10	>0.36	²²⁸ Pa(22 h)	911.205(4.19), 463.005(1.250), 964.770(4.25)
969.19 9	0.011 4	¹⁵⁷ Eu(15.18 h)	63.929(23.0), 410.723(17.5), 370.509(11.0)
969.2 4	0.073 16	¹⁵¹ Nd(12.44 m)	116.80(43.4), 255.68(16.4), 1180.89(14.8)
969.2 4	0.009 6	¹⁵¹ Nd(12.44 m)	116.80(43.4), 255.68(16.4), 1180.89(14.8)
969.30 5	0.45 6	¹¹⁷ Cd(2.49 h)	273.349(28), 1303.27(18.4), 344.459(17.9)
969.3 4	0.041 14	¹⁸⁷ W(23.72 h)	685.774(27.3), 479.531(21.8), 72.001(11.14)
• 969.315 11	41.6 19	²³² Pa(1.31 d)	894.351(19.8), 150.059(10.8), 453.655(8.61)
969.315 11	0.31 5	²³² Np(14.7 m)	327.3(52), 819.187(33.3), 866.760(24.4)
969.4 1	0.56 4	¹⁰⁷ Tc(21.2 s)	102.70(21.0), 177.00(9.2), 106.31(7.6)
969.4 6	0.6 3	¹¹⁶ Cs(3.84 s)	393.5(<0.09), 524.3(76), 615.1(30.4)
969.4 7	0.036 21	¹⁴⁰ Cs(63.7 s)	602.345(71.1), 908.25(11.6), 1200.25(6.39)
• 969.4	0.0075 20	²⁰⁶ Po(8.8 d)	1032.26(32.9), 511.36(24.1), 286.410(23.8)
969.44 10	2.10 7	¹⁰⁵ Ru(4.44 h)	724.21(47), 469.37(17.5), 676.36(15.7)
969.458 20	0.404 13	¹²⁸ I(24.99 m)	442.901(17), 526.557(1.58), 1140.079(0.0103)
969.458 20	0.630 19	¹²⁸ Cs(3.66 m)	442.901(26.8), 526.557(2.41), 1140.079(1.168)
969.5 5	0.52 8	¹¹⁷ I(2.22 m)	325.9(75), 274.4(20.4), 661.5(5.1)
969.6 5	0.38	¹⁰¹ Cd(1.2 m)	98.0(47), 1722.5(11), 1259.3(8)
• 969.6 5	3.1×10^{-6} 9	¹⁴⁹ Pm(53.08 h)	285.95(3.1), 859.46(0.109), 590.88(0.069)
969.6 3	0.075 15	¹⁹² Au(4.94 h)	316.50791(58.0), 295.95827(22.3), 2236.89(5.6)
969.61 5	14.9 10	¹²⁶ In(1.60 s)	1141.11(55.9), 3344.61(21.6), 3886.82(4.7)
969.7 3	0.094 14	⁸⁹ Kr(3.15 m)	220.948(20.1), 586.03(16.6), 904.27(7.2)
• 969.72 15	0.00080 9	⁹⁷ Ru(2.9 d)	215.718(86), 324.48(10.79), 569.31(0.873)
969.72 30	0.032 5	¹³¹ La(59 m)	108.081(25.0), 417.783(18.0), 365.162(16.9)
969.79 6	4.65	¹⁵⁴ Pm(1.73 m)	2057.76(17.1), 1393.9(14.4), 81.99(12.6)
• 969.81 18	0.07 4	¹⁷² Lu(6.70 d)	1093.657(62.5), 900.724(29.8), 181.528(20.6)
• 969.86 4	0.373 6	¹⁵⁶ Eu(15.19 d)	811.79(9.70), 88.9667(8.4), 1230.68(7.98)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
• 969.86 4	0.121 12	¹⁵⁶ Tb(5.35 d)	534.318(66.6), 199.2132(40.9), 1222.36(31.00)
• 969.9 2	0.18 4	¹⁴⁶ Eu(4.59 d)	747.2(98), 633.03(43), 634.07(37)
969.9 7	0.25 5	²⁰¹ Bi(108 m)	629.1(24.0), 936.2(11.3), 1014.1(10.7)
969.94 5	3.0 5	¹²⁴ In(3.17 s)	1131.64(68), 3214.15(21.5), 997.79(21.1)
969.94 5	52 4	¹²⁴ In(2.4 s)	1131.64(100), 1072.85(47), 102.91(45)
970.0 1	2.57 12	⁶¹ Zn(89.1 s)	475.0(16.85), 1660.5(7.80), 690.2(1.87)
970.0	0.07	⁹⁵ Sr(23.90 s)	685.6(23), 2717.3(4.6), 2933.1(4.1)
970.0 2	39.9 9	⁹⁷ Y(1.17 s)	1103.0(92.6), 161.4(71.8), 1091(56)
970.0 4	0.36 13	¹²¹ Cs(122 s)	179.4(30.2), 196.0(24.1), 459.7(12.0)
970.0 3	†13	¹⁵⁴ Nd(25.9 s)	151.703(†800), 799.55(†600), 180.693(†510)
970.00 20	0.303 20	¹⁶³ Yb(11.05 m)	860.28(10.1), 63.62(6.5), 123.21(1.98)
970.0 10	0.80 23	¹⁹¹ Hg(50.8 m)	252.5(57), 420.1(18.6), 578.6(17.6)
970.0 4	0.00024 12	²²³ Fr(21.8 m)	50.13(36.0), 79.72(9.1), 234.81(3.0)
• 970.0 4	†0.0019 4	²²⁷ Th(18.72 d)	235.971(†813), 50.13(†528), 256.25(†463)
• 970 1	0.014 4	²³⁰ Pa(17.4 d)	951.95(1.65), 918.48(8.2), 454.95(6.27)
970.1 1	0.027 8	⁷⁷ Ge(11.30 h)	264.44(54), 211.03(30.8), 215.50(28.6)
970.1 5	0.55 6	¹¹⁷ Xe(61 s)	28.5(7.0), 221.3(10.0), 32.3(7.6)
970.1 2	1.7 6	¹²⁹ Sn(6.9 m)	1161.31(56.0), 1128.44(50), 760.8(16.8)
970.100 15	0.005 4	¹⁷⁸ Lu(28.4 m)	93.180(6.0), 1340.8(3.22), 1310.05(1.40)
970.100 15	0.0549 21	¹⁷⁸ Ta(9.31 m)	93.180(1.78), 1350.68(1.18), 1340.8(1.027)
• 970.20 20	0.112 4	¹⁷⁰ Lu(2.00 d)	84.2551(4.256), 1280.25(3.450), 2041.88(1.434)
970.3 4	0.084 6	¹³⁹ Xe(39.68 s)	218.59(56), 296.53(21.7), 174.97(11.3)
970.38 3	0.604 20	¹⁵² Eu(9.274 h)	344.281(2.44), 1314.67(0.956), 271.135(0.076)
970.38 3	†22.0 22	¹⁵² Tb(17.5 h)	344.281(†1500), 586.294(†223), 271.135(†203)
970.4 3	0.06 6	¹¹⁷ Cd(2.49 h)	273.349(28), 1303.27(18.4), 344.459(17.9)
970.4 4	0.122 24	¹⁶¹ Er(3.21 h)	826.6(3.0), 211.15(12.2), 592.6(3.7)
970.4 5	0.26 4	¹⁶¹ Tm(33 m)	45.54(5.00), 1648.1(9.50), 84.40(9.4)
970.5 3	0.15 5	¹²⁷ In(1.09 s)	1597.7(49), 646.1(6.2), 805.1(5.6)
970.5 2	0.33 17	¹³³ Te(55.4 m)	912.671(55.28), 647.51(19.4), 863.955(15.6)
970.55 6	1.104 16	⁷² Ga(14.10 h)	834.01(96), 2201.69(25.9), 629.95(24.8)
• 970.55 6	0.0175 24	⁷² As(26.0 h)	834.01(80), 629.95(7.92), 1463.95(1.107)
970.6 4	0.81 22	¹¹⁹ Cd(2.69 m)	292.9(36.8), 343.0(16.9), 1609.7(10.9)
970.7 15	0.23 10	⁶⁵ Ge(30.9 s)	649.7(33), 62.0(27), 809.1(21.5)
970.7 4	†0.8 3	¹³⁸ Pm(3.24 m)	520.9(†100), 729.0(†37.8), 493.1(†21.6)
970.75 10	†0.43 4	¹⁸⁴ Ir(3.09 h)	263.97(†100), 119.80(†45), 390.38(†38)
970.77 10	0.38 4	¹⁵¹ Dy(17.9 m)	386.10(19.4), 49.46(18.0), 546.31(14.3)
970.8 3	0.136 20	¹⁸¹ Au(11.4 s)	198.60(4.4), 2022.4(4.2), 79.40(4.2)
970.87 10	2.35 13	⁷⁷ Rb(3.75 m)	66.52(57), 178.99(22.2), 393.37(9.7)
970.9 5	0.062 7	²²⁴ Fr(3.30 m)	215.985(33.1), 131.613(16.3), 836.90(9.8)
• 970.91 15	0.23 3	¹¹⁹ Te(4.70 d)	153.59(66), 1212.73(66), 270.53(28.0)
971.0 8	0.0068 23	⁹³ Y(10.18 h)	266.9(7.3), 947.1(2.09), 1917.8(1.55)
971.0 3	0.31 4	¹²⁰ Xe(40 m)	25.1(30), 72.6(9), 178.1(6.8)
971 1	0.05 3	¹³³ Te(12.5 m)	312.072(62), 407.63(27.1), 1333.21(10.67)
971.0 3	0.084 13	¹⁵³ Dy(6.4 h)	80.723(11.10), 213.754(10.90), 99.659(10.51)
971.0 5	1.2 3	¹⁸¹ Os(105 m)	238.75(44), 826.77(20), 118.03(12.9)
971.0 2	0.125 21	¹⁸³ Ir(58 m)	392.52(10.4), 228.70(6.9), 87.67(5.6)
971.0 2	0.262 24	²⁰⁴ Bi(11.22 h)	899.15(98), 374.72(82), 984.02(59)
971.06 5	1.22 10	¹⁷⁴ Ta(1.05 h)	206.50(58), 91.00(16.0), 1205.92(4.9)
971.1 2	0.151 13	¹⁴³ Cs(1.78 s)	195.554(13), 232.421(8.32), 306.424(6.80)
971.12 5	3.3 4	⁹⁸ Nb(2.86 s)	787.374(13), 1023.73(6.1), 1432.22(3.4)
971.12 5	0.62 3	⁹⁸ Nb(51.3 m)	787.374(93), 722.645(73.8), 1168.830(17.8)
971.12 35	0.09 3	¹³⁷ Nd(38.5 m)	75.5(17.0), 580.6(13), 306.60(10.0)
971.14 19	0.262 24	²⁰⁴ Bi(11.22 h)	899.15(98), 374.72(82), 984.02(59)
971.2 3	1.40 19	¹²² Cs(4.5 m)	331.1(94), 497.1(79), 638.5(63)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
971.3 2	$\dagger 23 6$	$^{112}\text{Te}(2.0 \text{ m})$	372.70($\dagger 100$), 296.20($\dagger 86$), 418.9($\dagger 57$)
971.32 35		$^{191}\text{Au}(3.18 \text{ h})$	586.45(17), 277.88(7.2), 674.19(6.8)
971.34 15	0.278 17	$^{97}\text{Zr}(16.91 \text{ h})$	743.36(93), 507.64(5.03), 1147.97(2.61)
971.34 5	0.52 4	$^{179}\text{Re}(19.5 \text{ m})$	430.221(28), 289.968(26.9), 1680.244(13.0)
971.4 3	$\dagger 6.0 3$	$^{201}\text{Po}(15.3 \text{ m})$	890.1($\dagger 100$), 240.1($\dagger 71.0$), 904.2($\dagger 54.8$)
• 971.41	0.07	$^{146}\text{Eu}(4.59 \text{ d})$	747.2(98), 633.03(43), 634.07(37)
971.43 18	0.27 3	$^{86}\text{Y}(14.74 \text{ h})$	1076.64(83), 627.72(32.6), 1153.01(30.5)
971.44 4	0.34 6	$^{118}\text{In}(4.45 \text{ m})$	1229.68(96), 1050.69(81.0), 683.08(54.3)
971.44 14	0.31 7	$^{118}\text{In}(4.45 \text{ m})$	1229.68(96), 1050.69(81.0), 683.08(54.3)
971.5 4	0.12 6	$^{101}\text{Zr}(2.1 \text{ s})$	119.3(10.8), 205.6(6.0), 912.2(3.48)
• 971.54 3	0.280 6	$^{205}\text{Bi}(15.31 \text{ d})$	1764.36(1.368), 703.44(31), 987.62(0.585)
971.6 3	0.081 25	$^{158}\text{Tm}(3.98 \text{ m})$	192.13(62), 335.10(16.8), 1149.83(7.6)
• 971.7 10	$\dagger 0.0006 3$	$^{227}\text{Th}(18.72 \text{ d})$	235.971($\dagger 813$), 50.13($\dagger 528$), 256.25($\dagger 463$)
971.77 9	0.0028 8	$^{149}\text{Nd}(1.728 \text{ h})$	211.309(25.9), 114.314(19.2), 270.166(10.7)
971.8 1	0.048 5	$^{176}\text{Ta}(8.09 \text{ h})$	1159.28(25), 88.34(12), 1224.93(6)
971.8 2	1.65 17	$^{230}\text{Fr}(19.1 \text{ s})$	711.0(13.6), 129.1(11.0), 728.4(7.3)
971.85 13	0.75 6	$^{202}\text{Au}(28.8 \text{ s})$	439.59(10.0), 1125.20(2.30), 1306.38(2.25)
971.9 4	0.239 18	$^{205}\text{At}(26.2 \text{ m})$	719.30(31), 669.41(8.6), 628.88(5.6)
971.96	0.90 3	$^{135}\text{I}(6.57 \text{ h})$	1260.409(28.90), 1131.511(22.74), 1678.027(9.62)
972.0 2	$\dagger 5.9 18$	$^{155}\text{Nd}(8.9 \text{ s})$	180.574($\dagger 100$), 418.99($\dagger 75$), 955.08($\dagger 50$)
972.1 3	$\dagger 4.5 3$	$^{138}\text{Pm}(3.24 \text{ m})$	520.9($\dagger 100$), 729.0($\dagger 37.8$), 493.1($\dagger 21.6$)
972.1 3	0.211 13	$^{153}\text{Dy}(6.4 \text{ h})$	80.723(11.10), 213.754(10.90), 99.659(10.51)
• 972.14 20	0.028 9	$^{188}\text{Ir}(41.5 \text{ h})$	155.032(29.7), 2214.62(18.7), 632.99(18)
972.2 5	$\dagger 9 2$	$^{130}\text{Sn}(1.7 \text{ m})$	144.9($\dagger 100$), 899.2($\dagger 49$), 84.7($\dagger 42$)
972.2 1	8.9 18	$^{141}\text{Gd}(24.5 \text{ s})$	351.1(89), 223.9(64), 574.9(51)
972.2 2	0.22 4	$^{149}\text{Dy}(4.20 \text{ m})$	100.8(15.2), 789.4(11.8), 1776.3(11.1)
972.2 8	0.095 14	$^{150}\text{Pm}(2.68 \text{ h})$	333.971(68), 1324.51(17.5), 1165.739(15.8)
972.2 2		$^{157}\text{Er}(18.65 \text{ m})$	53.05(24), 391.32(14.2), 121.57(10.1)
972.2 3	$\dagger 2.3 3$	$^{189}\text{Hg}(7.6 \text{ m})$	320.99($\dagger 100$), 78.21($\dagger 63$), 565.42($\dagger 48$)
972.3 4	1 1	$^{128}\text{Sb}(9.01 \text{ h})$	753.82(100), 743.22(100), 314.12(61)
972.3 5	0.91 13	$^{136}\text{Nd}(50.65 \text{ m})$	108.90(32), 40.2(18.9), 574.8(10.4)
972.3 8	0.00024 8	$^{161}\text{Gd}(3.66 \text{ m})$	360.94(0.59), 314.92(22.7), 102.315(13.9)
972.32 9	0.068 7	$^{92}\text{Y}(3.54 \text{ h})$	934.46(13.9), 1405.28(4.8), 561.03(2.40)
972.34 9	0.98 4	$^{133}\text{Ce}(4.9 \text{ h})$	477.22(39), 510.36(20.7), 58.39(19.2)
972.36 4	0.081 8	$^{155}\text{Dy}(9.9 \text{ h})$	226.918(68.4), 184.564(3.37), 1089.8(>2.8)
972.4	0.18	$^{133}\text{Pr}(6.5 \text{ m})$	134.3(14), 74.0(10), 315.6(10)
972.48 10	0.056 9	$^{105}\text{Cd}(55.5 \text{ m})$	961.84(4.69), 346.870(4.20), 1302.459(3.98)
• 972.5 5		$^{146}\text{Eu}(4.59 \text{ d})$	747.2(98), 633.03(43), 634.07(37)
• 972.53 4	0.344 22	$^{153}\text{Tb}(2.34 \text{ d})$	212.038(31.0), 170.504(6.8), 109.758(6.4)
972.550 25	0.454 16	$^{116}\text{In}(54.41 \text{ m})$	1293.54(84.4), 1097.3(56.2), 416.86(28.9)
972.550 25	72 5	$^{116}\text{Sb}(60.3 \text{ m})$	1293.54(100), 542.872(52), 407.351(42)
972.6 2	0.62 16	$^{108}\text{Tc}(5.17 \text{ s})$	242.25(82), 465.6(14.3), 707.81(11.4)
972.6 5	0.08 3	$^{245}\text{Pu}(10.5 \text{ h})$	327.428(25.4), 560.13(5.4), 308.222(4.9)
972.62	1.21 3	$^{135}\text{I}(6.57 \text{ h})$	1260.409(28.90), 1131.511(22.74), 1678.027(9.62)
972.64 11	0.55 17	$^{133}\text{Te}(55.4 \text{ m})$	912.671(55.28), 647.51(19.4), 863.955(15.6)
972.64 19	0.162 12	$^{192}\text{Au}(4.94 \text{ h})$	316.50791(58.0), 295.95827(22.3), 2236.89(5.6)
• 972.8 8	0.10 7	$^{119}\text{Te}(4.70 \text{ d})$	153.59(66), 1212.73(66), 270.53(28.0)
972.8 4	0.53 9	$^{157}\text{Tm}(3.63 \text{ m})$	455.00(9.3), 385.5(8.8), 348.40(8.4)
972.9 2	0.78 6	$^{143}\text{Gd}(39 \text{ s})$	258.81(75), 204.77(19.4), 463.7(9.9)
973 1	0.04 1	$^{87}\text{Zr}(1.68 \text{ h})$	1227(1.0), 1209.8(0.33), 1024(0.28)
973.0 4	0.015 5	$^{139}\text{Cs}(9.27 \text{ m})$	1283.23(8.3), 627.24(1.78), 1420.66(0.91)
973.0 6	0.15 4	$^{159}\text{Er}(36 \text{ m})$	624.5(33), 649.1(23.4), 205.92(9.7)
973.0 3	0.26 4	$^{161}\text{Er}(3.21 \text{ h})$	826.6(3.0), 211.15(12.2), 592.6(3.7)
973.0 7	0.021 11	$^{167}\text{Lu}(51.5 \text{ m})$	29.66(14.4), 239.22(8.6), 213.19(3.6)

• $t_{1/2} > 1 \text{ d}$

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
973.06 10	0.214 13	¹⁴¹ Cs(24.94 s)	48.53(7.90), 561.63(4.7), 1194.02(3.95)
973.07 5	0.672 25	¹⁴³ Ba(14.33 s)	211.475(25), 798.79(15.6), 980.45(11.55)
973.10 22	0.056 13	¹⁶⁵ Yb(9.9 m)	80.11(49), 68.86(9.1), 1090.28(4.4)
973.2 2	2.6 3	⁷⁶ Rb(39.1 s)	2571.3(47), 424.0(43.4), 355.6(8.2)
973.2 3	†0.60 7	¹²⁹ In(1.23 s)	315.3(†28), 1222.0(†2.5), 906.7(†1.6)
973.23 10	0.191 15	¹⁵¹ Nd(12.44 m)	116.80(43.4), 255.68(16.4), 1180.89(14.8)
973.35 13	2.5 5	²⁰⁷ Rn(9.25 m)	344.53(46), 747.15(14.2), 402.68(11.9)
973.37 5	0.47 3	¹¹⁹ I(19.1 m)	257.52(87), 635.86(2.69), 320.53(2.17)
973.37 22	0.13 4	¹⁸¹ Re(19.9 h)	365.57(56), 360.70(20), 639.30(6.4)
973.38 4	†4.5 15	¹⁶⁴ Tm(2.0 m)	91.40(†1500), 1154.66(†366), 768.91(†279)
973.4 3	0.39 6	¹⁴⁹ Dy(4.20 m)	100.8(15.2), 789.4(11.8), 1776.3(11.1)
973.49 15	0.12	¹³⁷ I(24.5 s)	1218.00(12.8), 601.05(4.80), 1302.64(4.42)
973.5 6	0.013 4	¹³⁷ Pr(1.28 h)	836.7(1.8), 433.9(1.28), 514.0(1.08)
973.5 2	0.11 4	²³⁰ Ac(122 s)	454.95(8), 508.20(5.15), 1243.9(3.50)
973.52 17	0.157 17	¹⁹² Au(4.94 h)	316.50791(58.0), 295.95827(22.3), 2236.89(5.6)
973.6 1	0.17 4	¹⁰⁷ Tc(21.2 s)	102.70(21.0), 177.00(9.2), 106.31(7.6)
973.6 2	1.64 5	¹⁴⁸ Ho(9.59 s)	1687.5(82.47), 660.8(58.94), 504.3(18.62)
973.6 3	0.20 3	¹⁶³ Yb(11.05 m)	860.28(10.1), 63.62(6.5), 123.21(1.98)
973.7 2	0.035 5	⁷⁹ Rb(22.9 m)	688.1(23), 182.77(19.2), 143.41(13.9)
973.8 20	0.010 4	¹⁴⁵ Gd(23.0 m)	1757.9(34.2), 1880.6(32.6), 1041.8(9.9)
973.8 1	0.142 14	¹⁴⁶ Ba(2.22 s)	140.7(20.2), 251.2(19.6), 121.2(14.2)
973.8	†98 7	²⁰² Po(44.7 m)	688.6(†1000), 316.0(†286), 165.7(†174)
973.9 1	0.040 3	⁹¹ Sr(9.63 h)	1024.3(33), 749.8(23.61), 652.9(8.0)
973.9 1	99 5	¹³² Sb(2.79 m)	696.8(86), 989.6(14.9), 103.4(13.9)
973.9 1	100 10	¹³² Sb(4.10 m)	696.8(100), 150.6(66), 103.4(35)
973.9 2	†79 12	¹³⁴ Pr(11 m)	293.5(†100), 299.0(†100), 1196.8(†100)
973.9 2	†79 12	¹³⁴ Pr(17 m)	1964.1(†100), 1904.3(†100), 1579.9(†100)
973.9 1	23.8 12	²⁴⁰ Np(61.9 m)	566.34(25.3), 600.57(18.4), 895.8(13.6)
974 1		⁷⁷ Ge(11.30 h)	264.44(54), 211.03(30.8), 215.50(28.6)
974.0 5	0.112 14	¹¹⁵ Ag(20.0 m)	229.08(18), 212.80(4.4), 472.70(4.0)
974.0 4	0.29	¹⁵⁴ Pm(2.68 m)	184.810(32), 81.99(15.4), 546.66(14.5)
974.0 2	†2.7 3	¹⁶⁸ Re(4.4 s)	199.3(†100), 363.2(†95), 479.8(†62.8)
974		²⁰⁷ At(1.80 h)	814.41(44.5), 588.33(19.2), 300.654(12.8)
974.02 32	0.12 3	¹⁴¹ Xe(1.73 s)	909.23(24.0), 118.705(16.1), 105.937(9.8)
974.08 10	0.49 11	²⁰³ Po(36.7 m)	908.64(55), 1090.95(19.2), 893.49(18.7)
• 974.09 4	0.0144 10	¹⁵² Eu(13.542 y)	344.281(26.58), 778.91(12.96), 411.115(2.231)
974.09 4	†74 5	¹⁵² Tb(17.5 h)	344.281(†1500), 586.294(†223), 271.135(†203)
974.1 5	1.2	¹⁰¹ Cd(1.2 m)	98.0(47), 1722.5(11), 1259.3(8)
974.1 5	0.20 4	¹⁴¹ Sm(22.6 m)	196.88(74), 431.6(40.4), 777.6(20.3)
• 974.1 3	0.118 12	¹⁵⁶ Tb(5.35 d)	534.318(66.6), 199.2132(40.9), 1222.36(31.00)
974.14 9	0.068 3	¹⁵¹ Tb(17.609 h)	287.357(28.3), 251.863(26.3), 108.088(24.3)
974.17 7	0.44 3	²⁰⁴ Bi(11.22 h)	899.15(98), 374.72(82), 984.02(59)
974.2 2	0.019	¹⁰⁴ Ag(69.2 m)	555.796(92.6), 767.72(65.7), 941.7(25.0)
974.2 2	0.018	¹⁰⁴ Ag(33.5 m)	555.796(91), 1238.0(3.87), 2276.7(2.46)
974.2 5	0.52 9	¹⁴⁴ La(40.8 s)	397.440(94.3), 541.20(39.2), 844.8(22.3)
974.204 26	0.640 15	¹³¹ La(59 m)	108.081(25.0), 417.783(18.0), 365.162(16.9)
974.3 2	0.32 5	⁹² Ru(3.65 m)	213.81(96), 259.32(92), 134.57(65.5)
974.3 5	0.09 3	¹⁰⁰ Cd(49.1 s)	936.55(66), 139.71(6.7), 582.5(6.3)
974.39 10	0.98 6	⁸⁹ Kr(3.15 m)	220.948(20.1), 586.03(16.6), 904.27(7.2)
974.4 6	1.8 18	¹¹⁶ Ag(10.4 s)	513.39(92), 705.82(61), 1028.90(30.4)
974.42 15	0.0058 7	⁴⁵ Ti(184.8 m)	720.22(0.154), 1408.6(0.085), 1662.4(0.041)
974.5 2	0.60 12	¹¹⁹ Ag(2.1 s)	626.4(13), 366.2(12.1), 399.1(10.9)
974.5 4	0.008 8	¹⁵² Pm(4.1 m)	121.7824(15.7), 841.586(2.17), 961.06(1.92)
• 974.5 3	<1.9×10 ⁻⁸	²⁴² Cm(162.8 d)	44.08(0.0325), 101.90(0.0025), 157.42(0.0014)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
974.54 3	1.60 10	¹⁰⁶ In(6.2 m)	632.66(100), 861.16(92), 997.87(48)
974.54 4	0.0039	²³⁹ U(23.45 m)	74.664(48), 43.533(4.14), 662.24(0.18)
974.6 1	75 8	⁸⁴ Y(40 m)	793.3(99), 1040.2(56), 660.9(15.7)
974.6 3	0.24 6	¹⁰⁸ Tc(5.17 s)	242.25(82), 465.6(14.3), 707.81(11.4)
974.6 4	0.08	²⁰³ Bi(11.76 h)	820.3(30), 825.2(14.6), 896.9(13)
974.610 24	0.088 18	⁷⁵ Br(96.7 m)	286.572(88), 141.3147(6.6), 427.883(4.4)
974.61 3	12.9 5	¹²² In(10.3 s)	1140.55(98), 1001.58(50.7), 1190.58(20.5)
974.670 35	4.8 3	¹³⁴ I(52.6 m)	847.025(95.4), 884.090(64.9), 1072.547(15.0)
974.7 2	0.35 4	⁷¹ Zn(3.96 h)	386.28(93), 487.38(62), 620.18(57)
974.7 3	0.103 12	¹⁵³ Dy(6.4 h)	80.723(11.10), 213.754(10.90), 99.659(10.51)
974.72	14.95 22	²⁵ Na(59.1 s)	585.03(13.00), 389.70(12.68), 1611.711(9.48)
974.72	0.024 3	²⁵ Al(7.183 s)	1611.711(0.79), 389.70(0.023), 585.03(0.023)
974.8	†5.5	¹⁴⁴ Gd(4.5 m)	333.3(†100), 2432.6(†94.8), 629.5(†32.4)
974.90 10	2.8 3	¹¹⁴ Sb(3.49 m)	1299.90(99), 887.60(17.4), 327.18(7.0)
974.9 1	3.08 16	¹³⁰ La(8.7 m)	357.4(81.0), 550.7(25.9), 908.0(17.0)
974.9 4	0.34 5	¹³⁶ Pr(13.1 m)	552.16(76), 539.75(52), 1092.3(18.5)
974.9 7	0.037 14	¹⁴¹ Ba(18.27 m)	190.328(46.0), 304.194(25.4), 276.948(23.4)
974.91 20	0.025 22	⁶⁶ Ge(2.26 h)	43.89(28.7), 381.85(28), 272.97(10.4)
975.0	34	⁴³ Ar(5.37 m)	738.1(15), 1439.5(13), 2344.7(7)
975.0 4	0.22	⁴⁴ Ar(11.87 m)	182.6(66), 1703.4(57), 1886.0(31)
975.0 5	0.16 4	¹¹¹ Pd(5.5 h)	70.44(8.3), 391.25(5.4), 632.80(3.6)
• 975 1	>0.021	¹⁴⁷ Gd(38.06 h)	229.32(63), 396.00(34.3), 929.01(20.2)
975.0 6	0.33 12	¹⁶⁶ Lu(2.65 m)	228.12(77.3), 337.50(41), 367.95(31.4)
975.0 2	0.19 5	²³⁶ Pa(9.1 m)	642.35(37.0), 687.59(9.9), 1762.7(6.0)
975 1	0.25 17	²⁴⁵ Pu(10.5 h)	327.428(25.4), 560.13(5.4), 308.222(4.9)
975.03 12	0.093 9	⁹⁸ Nb(51.3 m)	787.374(93), 722.645(73.8), 1168.830(17.8)
975.1 3	0.27 3	⁷⁴ Ga(8.12 m)	595.847(91), 2353.46(44.5), 608.353(14.3)
975.1 4	†3.0 3	¹²⁰ I(81.0 m)	560.44(†137), 1523.0(†21.1), 640.85(†17.1)
975.1 2	0.044 5	¹⁷⁶ Ta(8.09 h)	1159.28(25), 88.34(12), 1224.93(6)
975.1 1	0.027 7	²³⁴ Pa(6.70 h)	131.30(18), 946.00(13.4), 883.24(9.6)
• 975.170 11	0.08 3	²⁰⁰ Tl(26.1 h)	367.943(87), 1205.717(29.9), 579.298(13.8)
975.19 4	0.372 19	¹⁶³ Tm(1.810 h)	104.320(18.6), 69.229(11.6), 241.305(10.9)
975.20 10	0.0075 9	⁸² Rb(1.273 m)	776.517(13), 1395.139(0.471), 698.374(0.133)
975.2 5	0.00018 3	²²³ Fr(21.8 m)	50.13(36.0), 79.72(9.1), 234.81(3.0)
975.25	0.6 3	⁴² Ti(199 ms)	611.046(56), 2222.6(0.67), 636.4(0.7)
975.38 14	0.058 12	⁸⁹ Rb(15.15 m)	1031.94(58), 1248.19(42.6), 2196.02(13.3)
975.4	†11	⁹⁹ Cd(16 s)	342.6(†100), 671.8(†31), 1583.3(†28)
975.5 5	0.033 10	⁷² Ga(14.10 h)	834.01(96), 2201.69(25.9), 629.95(24.8)
975.5 5	0.07	¹¹⁷ Cd(2.49 h)	273.349(28), 1303.27(18.4), 344.459(17.9)
975.6		¹⁵² Tb(17.5 h)	344.281(†1500), 586.294(†223), 271.135(†203)
975.7 3	2.90 18	¹⁷⁰ Ho(2.76 m)	258.2(37.0), 931.3(36.1), 181.6(23.8)
975.7 5	†6	¹⁷⁷ Os(2.8 m)	84.7(†100), 125.4(†63), 195.8(†61)
975.9 3	0.059 10	⁹⁵ Ru(1.643 h)	336.43(70.2), 1096.76(21.0), 626.77(17.8)
975.9 1	†0.18 5	¹⁶⁰ Ho(5.02 h)	728.18(†100), 879.383(†65.9), 962.317(†59.1)
975.9 3	0.047 11	¹⁶⁷ Lu(51.5 m)	29.66(14.4), 239.22(8.6), 213.19(3.6)
975.95 3	0.051 5	²²⁸ Ac(6.15 h)	911.205(26.6), 968.971(16.2), 338.322(11.3)
975.95 3	1.63 9	²²⁸ Pa(22 h)	911.205(4.19), 463.005(1.250), 964.770(4.25)
976	35	¹²⁰ I(53 m)	560.44(100), 601.11(87), 614.62(67)
976.00 12	0.91 4	²⁰⁵ At(26.2 m)	719.30(31), 669.41(8.6), 628.88(5.6)
976.08 6	0.71 4	⁹³ Kr(1.286 s)	253.42(41.2), 323.89(24.1), 266.83(20.6)
976.09 4	0.0460 22	¹⁵⁹ Ho(33.05 m)	121.012(36.2), 131.973(23.6), 309.594(17.2)
976.1 7	0.78 16	¹²⁷ Sn(2.10 h)	1114.3(39), 1095.6(20), 823.1(10.9)
• 976.1 2	0.12 3	¹⁴⁶ Eu(4.59 d)	747.2(98), 633.03(43), 634.07(37)
976.1 15	0.42 6	¹⁹⁶ Tl(1.84 h)	426.0(84), 610.5(11.9), 635.5(9.8)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
976.2 3	0.17 3	¹⁴¹ Eu(40.0 s)	394.0(9), 384.5(5.6), 382.9(2.97)
976.2 1	8.0 18	¹⁴¹ Gd(24.5 s)	351.1(89), 223.9(64), 574.9(51)
976.2 5	0.0007 3	¹⁷¹ Er(7.516 h)	308.31(64.4), 295.901(28.9), 111.621(20.5)
976.2 10	0.022 11	²¹⁴ Bi(19.9 m)	609.312(44.8), 1764.494(15.36), 1120.287(14.80)
• 976.23 11	0.088 10	¹²⁴ Sb(60.20 d)	602.730(97.8), 1690.980(47.3), 722.786(10.76)
• 976.23 11	0.103 12	¹²⁴ I(4.18 d)	602.730(60), 1690.980(10.41), 722.786(9.98)
976.3 3	0.088 20	⁹⁵ Rb(377.5 ms)	352.02(49), 204.02(15.1), 680.7(14.8)
976.3 2	1.08 9	¹⁰⁹ Sn(18.0 m)	1099.4(30), 649.90(28.0), 1321.3(11.9)
976.3 1	0.0019 6	¹²⁷ Cs(6.25 h)	411.95(62.8), 124.70(11.37), 462.31(5.07)
976.3	0.35	¹³³ Pr(6.5 m)	134.3(14), 74.0(10), 315.6(10)
976.3 3	0.90 9	²³⁰ Fr(19.1 s)	711.0(13.6), 129.1(11.0), 728.4(7.3)
976.32 10	1.37 10	²⁰⁶ At(30.0 m)	700.66(98), 477.10(86), 395.54(48)
• 976.37 7	2.71 7	¹¹⁹ Te(4.70 d)	153.59(66), 1212.73(66), 270.53(28.0)
976.4 2	0.122 9	⁹⁴ Rb(2.702 s)	1309.1(87), 836.9(87.10), 1577.5(31.8)
976.4 2	†50 2	¹³⁹ I(2.29 s)	527.7(†100), 571.2(†98), 536.6(†67)
• 976.4 3	0.057 16	¹⁹⁰ Ir(11.78 d)	186.718(52.4), 605.24(39.9), 518.55(34.0)
976.49 21	0.057 4	⁸⁷ Kr(76.3 m)	402.586(49.6), 2554.8(9.2), 845.43(7.34)
976.50 5	4.62 13	⁷⁶ Ga(32.6 s)	562.93(66), 545.51(26.0), 1108.41(15.8)
976.5 3	†0.2	¹¹¹ Rh(11 s)	275.4(†100.0), 411.8(†9.42), 230.0(†8.9)
976.5 2	2.67 20	¹³⁶ I(83.4 s)	1313.02(67), 1321.08(24.8), 2289.6(10.4)
• 976.50 4	0.0812 22	¹⁴⁸ Eu(54.5 d)	550.284(98.5), 629.987(71.9), 611.293(20.5)
976.5 10	0.42 21	¹⁶⁴ Tb(3.0 m)	168.838(25.4), 754.80(23.3), 215.07(21)
976.5 5	†1.0 5	¹⁷¹ Hf(12.1 h)	122.0(†100), 662.2(†83), 347.18(†47)
976.55 2	0.80 4	²¹⁰ At(8.1 h)	1181.39(99.3), 245.31(79), 1483.39(46.5)
976.6 3	2.6 4	¹⁵⁹ Sm(11.37 s)	189.79(46), 861.97(18.2), 254.43(9.8)
976.6 5	3.6 6	¹⁷⁸ Re(13.2 m)	237.3(45), 105.9(23.0), 939.1(8.9)
976.68 29	0.63 6	¹⁴⁶ Cs(0.343 s)	181.02(57.0), 557.76(9.18), 332.38(6.44)
976.7 4	0.0116 23	⁷⁹ Rb(22.9 m)	688.1(23), 182.77(19.2), 143.41(13.9)
976.7 5	0.53 11	⁹⁷ Pd(3.10 m)	265.26(56), 475.2(26.7), 792.70(13.8)
976.74 20	0.00023 4	¹⁶⁵ Dy(2.334 h)	94.700(3.58), 361.68(0.84), 633.415(0.568)
976.8 2	1.79 16	¹²⁶ Ba(100 m)	233.6(19.6), 257.6(7.6), 241.0(6.0)
976.8 1	0.31 3	¹⁴⁶ Ba(2.22 s)	140.7(20.2), 251.2(19.6), 121.2(14.2)
976.9 2	0.068 8	⁸² Rb(6.472 h)	776.517(84), 554.348(62.4), 619.106(37.976)
• 976.9 3	0.031 10	¹⁴⁷ Gd(38.06 h)	229.32(63), 396.00(34.3), 929.01(20.2)
977 1	0.15 5	¹²⁷ In(1.09 s)	1597.7(49), 646.1(6.2), 805.1(5.6)
977 1	>0.35	¹³⁷ Pm(2.4 m)	177.5(40.29), 108.6(35), 233.6(29.57)
977.00 20	0.165 13	¹⁵³ Dy(6.4 h)	80.723(11.10), 213.754(10.90), 99.659(10.51)
977.0 8	2.5 6	¹⁶⁶ Ta(34.4 s)	158.5(53), 311.8(28.2), 810.1(9.8)
977.0 2	0.049 6	¹⁷⁶ Ta(8.09 h)	1159.28(25), 88.34(12), 1224.93(6)
977.0 3	0.142 14	¹⁹⁰ Au(42.8 m)	295.78(71.0), 301.82(23.4), 597.67(9.4)
977.02 2	<0.000024	¹⁵ C(2.449 s)	5297.817(63.2), 8310.15(0.032), 9046.78(0.031)
977.03 17	0.44 5	¹⁰⁵ In(5.07 m)	131.37(41), 260.21(15.7), 604.11(9.2)
977.048 18	0.0097 12	¹⁷³ Hf(23.6 h)	123.672(83), 296.974(33.9), 139.634(12.7)
977.1 1	0.0114 20	¹²⁶ Cs(1.64 m)	388.633(41), 491.243(5.0), 925.24(4.56)
977.1 5	0.037 9	¹⁵¹ Tb(17.609 h)	287.357(28.3), 251.863(26.3), 108.088(24.3)
977.131 13	13.6 7	¹⁵⁸ Eu(45.9 m)	944.09(25), 79.5104(11), 897.60(10.3)
• 977.131 13	0.167 22	¹⁵⁸ Tb(180 y)	944.09(44), 962.06(20.3), 79.5104(11.6)
977.15 4	0.564 19	⁸¹ Rb(4.576 h)	190.38(64.0), 446.15(23.2), 510.31(5.3)
977.15 15	0.28 5	¹²⁴ In(3.17 s)	1131.64(68), 3214.15(21.5), 997.79(21.1)
977.15 15	1.60 20	¹²⁴ In(2.4 s)	1131.64(100), 969.94(52), 1072.85(47)
977.2 7	0.63 8	⁵¹ Sc(12.4 s)	1437.3(52), 2144.1(31.8), 1567.5(14.9)
977.2 2	0.13 3	¹⁰⁴ Tc(18.3 m)	358.0(89), 530.5(15.6), 535.1(14.7)
977.2 2	0.65 20	¹²⁶ Ba(100 m)	233.6(19.6), 257.6(7.6), 241.0(6.0)
977.2 2	0.39 17	²⁴⁵ Pu(10.5 h)	327.428(25.4), 560.13(5.4), 308.222(4.9)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
977.2		²⁴⁵ Pu(10.5 h)	327.428(25.4), 560.13(5.4), 308.222(4.9)
977.27 10	†2.06 17	¹⁸⁸ Au(8.84 m)	265.63(†100), 340.04(†23.9), 605.5(†16.3)
• 977.373 4	1.439 15	⁵⁶ Co(77.27 d)	846.771(100), 1238.282(67.6), 2598.459(17.28)
977.4 1		¹⁵⁸ Ho(21.3 m)	406.14(†100), 838.9(†84.3), 1484.1(†66.2)
977.4 1	†2.25 11	¹⁵⁸ Ho(11.3 m)	218.21(†100.0), 98.91(†70), 945.7(†37)
977.4 2	0.039	¹⁸⁵ Au(4.25 m)	310.6(13), 243.1(6.6), 77.7(6)
977.42 15	2.7 3	¹²⁶ In(1.64 s)	1141.11(100), 908.58(99), 111.79(88)
977.5 5	1.61 8	¹⁹⁹ Bi(27 m)	560.1(22.0), 424.85(22), 841.7(11)
977.53 4	3.14 10	¹⁸⁷ Ir(10.5 h)	912.95(4.79), 427.12(4.12), 400.89(3.94)
977.6 2	0.057 25	²³⁰ Ac(122 s)	454.95(8), 508.20(5.15), 1243.9(3.50)
977.7 3	0.51 14	¹⁵⁷ Tm(3.63 m)	455.00(9.3), 385.5(8.8), 348.40(8.4)
977.7 12	†1.9 7	¹⁹¹ Tl(5.22 m)	452.6(†100), 470.1(†98), 391.6(†96)
977.8 4	1.19 20	⁶⁹ Se(27.4 s)	97.98(66), 66.4(24.8), 691.8(16.6)
977.8 1	5.1 4	⁹⁶ Rb(0.199 s)	815.0(78.00), 692.0(8.0), 813.2(7.0)
977.8 1	0.8	⁹⁷ Rb(169.9 ms)	815.0(100), 692.0(16.5), 414.3(15.0)
977.80 2	0.09 5	²⁴⁴ Am(26 m)	1084.181(0.37), 941.95(0.36), 1062.953(0.28)
977.85 6	†5.39 6	⁷¹ Se(4.74 m)	147.50(†211), 1095.26(†43.6), 830.33(†43.2)
977.9	8.2 14	³⁶ Si(0.45 s)	175.0(68), 249.9(68), 878.2(44)
977.9 2	0.0019 5	¹⁰⁵ Ru(4.44 h)	724.21(47), 469.37(17.5), 676.36(15.7)
977.9 3	0.0043 14	¹⁶⁷ Yb(17.5 m)	113.34(55.3), 106.18(22.5), 176.25(21)
977.9 4	1.6 6	¹⁸⁷ Pt(2.35 h)	106.46(9), 201.52(6.4), 110.04(5.7)
977.94 18	2.1 3	¹⁰² Ag(12.9 m)	556.52(91), 719.40(58), 1744.99(17.3)
977.94 18	2.7 3	¹⁰² Ag(7.7 m)	556.52(48), 1834.7(9.8), 2054.4(6.6)
978	0.07 4	⁶¹ Fe(5.98 m)	1205.07(44), 1027.42(42.7), 297.90(22.2)
978 1	0.12 6	¹³³ Te(12.5 m)	312.072(62), 407.63(27.1), 1333.21(10.67)
978.1 20	0.15 6	⁷⁴ Kr(11.50 m)	89.65(31), 203.0(18.0), 296.67(9.9)
978.1	0.18	¹⁴⁷ Ba(0.893 s)	167.4(11), 105.2(4.8), 196.1(4.8)
978.1 3	0.11 4	¹⁵⁰ Tb(3.48 h)	638.05(72), 496.3(14.8), 792.5(4.39)
978.1 3	†13.4 23	²³³ Pu(20.9 m)	235.4(†100), 534.8(†90.2), 500.3(†38.6)
978.18 20	0.087	¹³⁷ I(24.5 s)	1218.00(12.8), 601.05(4.80), 1302.64(4.42)
978.19 21	†2.5 4	¹⁸⁹ Hg(7.6 m)	320.99(†100), 78.21(†63), 565.42(†48)
978.2 3	†7 1	¹⁵⁹ Yb(1.58 m)	166.16(†500), 177.12(†159), 390.20(†113)
978.2	0.11	¹⁸⁵ Ir(14.4 h)	254.4(13.3), 1828.8(10), 60.0(5.7)
978.2 3	0.090 21	²³⁴ Pa(6.70 h)	131.30(18), 946.00(13.4), 883.24(9.6)
978.2 3	1.00 13	²⁵¹ Cm(16.8 m)	542.7(10.9), 530.0(1.62), 389.7(1.28)
978.22 15	0.056 9	¹⁰⁵ Cd(55.5 m)	961.84(4.69), 346.870(4.20), 1302.459(3.98)
• 978.28	0.07	¹⁴⁶ Eu(4.59 d)	747.2(98), 633.03(43), 634.07(37)
978.30 4	4.86 17	¹³³ Te(55.4 m)	912.671(55.28), 647.51(19.4), 863.955(15.6)
978.3 2	†41 3	¹³⁵ Pm(49 s)	198.5(†100), 207.2(†70), 463.5(†62)
978.3 2	0.146 21	¹⁸³ Ir(58 m)	392.52(10.4), 228.70(6.9), 87.67(5.6)
978.3 10	0.14 3	²⁰¹ Bi(108 m)	629.1(24.0), 936.2(11.3), 1014.1(10.7)
978.3 8	0.0075	²³³ Th(22.3 m)	86.477(2.7), 29.374(2.5), 459.222(1.4)
• 978.36 7	0.040 6	²⁰⁵ Bi(15.31 d)	1764.36(1.368), 703.44(31), 987.62(0.585)
978.37 12	0.69 7	¹⁰⁰ Y(735 ms)	212.531(73), 118.59(15.4), 665.98(7.7)
978.45 15	0.087 12	¹⁵⁸ Tm(3.98 m)	192.13(62), 335.10(16.8), 1149.83(7.6)
• 978.47 5	0.020 5	¹⁵⁰ Eu(35.8 y)	333.971(96), 439.401(80.4), 584.274(52.6)
978.5 5	1.90 11	¹⁴⁴ La(40.8 s)	397.440(94.3), 541.20(39.2), 844.8(22.3)
978.5		¹⁶⁰ Lu(36.1 s)	243.2(†100), 395.4(†21.0), 577.2(†10.7)
978.6 3	1.9 5	¹²¹ Cd(13.5 s)	324.976(49.5), 1040.26(16.8), 349.937(12.9)
978.66 7	0.373 21	⁸¹ Sr(22.3 m)	153.54(33.8), 147.76(30.1), 443.34(17.5)
978.7 5	0.113 25	¹²¹ Xe(40.1 m)	252.7(13), 132.8(10.9), 445.2(7.7)
978.7 2	†25 5	¹³⁴ Pr(11 m)	293.5(†100), 299.0(†100), 1196.8(†100)
978.7 2	†25 5	¹³⁴ Pr(17 m)	1964.1(†100), 1904.3(†100), 1579.9(†100)
978.7 2	0.19 3	¹⁸³ Au(42.0 s)	161.18(9.4), 214.13(5.9), 313.08(5.0)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
978.7 4	0.00081 9	²²³ Fr(21.8 m)	50.13(36.0), 79.72(9.1), 234.81(3.0)
978.73 26	†2.3 5	¹⁶⁵ Lu(10.74 m)	132.49(†100), 120.60(†100), 174.25(†47.0)
978.8 8	1.2 3	¹²¹ Cd(8.3 s)	2059.41(21.0), 1020.89(18.9), 987.81(13.6)
978.8	0.016 5	¹⁴⁹ Nd(1.728 h)	211.309(25.9), 114.314(19.2), 270.166(10.7)
978.8 3	0.343 20	¹⁷⁷ W(135 m)	115.65(50), 426.98(13.2), 1036.4(10.3)
978.87 10	0.040 3	¹⁵⁵ Dy(9.9 h)	226.918(68.4), 184.564(3.37), 1089.8(>2.8)
978.94 14	>0.006	⁹³ Mo(6.85 h)	949.82(0.120), 689.07(0.070), 541.32(0.060)
978.969 15	0.256 5	¹⁴⁵ Pr(5.984 h)	748.278(0.5250), 675.795(0.514), 72.500(0.261)
979.0		¹²⁷ Sn(4.13 m)	490.9(90), 1348.0(4.8), 1564.0(4.0)
979.00 20	0.30 3	¹⁵³ Dy(6.4 h)	80.723(11.10), 213.754(10.90), 99.659(10.51)
979.013 23	0.078 10	¹⁴⁹ Nd(1.728 h)	211.309(25.9), 114.314(19.2), 270.166(10.7)
979.07 18	1.54 18	¹⁹⁵ Pb(15.0 m)	383.64(106.9), 394.21(44), 878.40(24.2)
• 979.09 10	0.044 3	¹⁴⁶ Eu(4.59 d)	747.2(98), 633.03(43), 634.07(37)
979.09 6	0.49 3	¹⁴⁹ Tb(4.118 h)	352.24(29.43), 164.98(26.4), 388.57(18.37)
979.17 6	0.089 6	¹⁴⁵ Ce(3.01 m)	724.33(59), 62.54(13.33), 1148.03(9.15)
979.2 2	0.36 3	⁹⁶ Y(9.6 s)	1750.42(89), 915.0(60), 617.1(56)
979.2 4	4.0 18	¹¹⁰ Rh(28.5 s)	373.80(91), 546.90(42.4), 687.70(25.8)
979.2 3	4.2 4	¹¹² Rh(6.8 s)	348.70(87), 560.5(49), 1098.6(39)
979.2 4	7.4 16	¹²⁷ Sn(2.10 h)	1114.3(39), 1095.6(20), 823.1(10.9)
979.22 5		¹⁶⁸ Lu(5.5 m)	1483.65(†100), 228.58(†97), 111.8(†68)
979.22 5	20 3	¹⁶⁸ Lu(6.7 m)	198.82(28), 896.12(15), 884.64(13.9)
979.25 13	0.24 4	¹⁷⁴ Ta(1.05 h)	206.50(58), 91.00(16.0), 1205.92(4.9)
• 979.29 7	3.01 7	¹¹⁹ Te(4.70 d)	153.59(66), 1212.73(66), 270.53(28.0)
979.3	3.6	⁹⁶ Y(9.6 s)	1750.42(89), 915.0(60), 617.1(56)
• 979.33 12	0.035 6	¹⁵³ Tb(2.34 d)	212.038(31.0), 170.504(6.8), 109.758(6.4)
979.37 14	0.00109 10	¹⁶¹ Gd(3.66 m)	360.94(0.59), 314.92(22.7), 102.315(13.9)
979.4 3	0.28 3	¹²³ Xe(2.08 h)	148.9(49), 178.1(14.9), 330.2(8.6)
979.46 9	1.1 3	¹⁶⁴ Lu(3.14 m)	123.3(34.0), 740.52(12.2), 262.22(10.8)
979.48 4	0.408 14	¹⁵¹ Tb(17.609 h)	287.357(28.3), 251.863(26.3), 108.088(24.3)
979.48 10	0.027 3	²²⁸ Ac(6.15 h)	911.205(26.6), 968.971(16.2), 338.322(11.3)
979.5 2	0.46 9	⁷⁴ Br(46 m)	634.78(91), 728.37(35.6), 634.26(16.4)
979.5 4	0.16 8	¹⁸⁵ Au(4.25 m)	310.6(13), 243.1(6.6), 77.7(6)
• 979.5 2	0.059 12	¹⁸⁸ Ir(41.5 h)	155.032(29.7), 2214.62(18.7), 632.99(18)
979.5 3	0.032 16	²⁰¹ Pb(9.33 h)	331.19(79), 361.27(9.9), 945.96(7.4)
979.6 5	†0.73 12	¹²⁰ I(81.0 m)	560.44(†137), 1523.0(†21.1), 640.85(†17.1)
979.6		²³⁸ Pa(2.3 m)	1015.3(†<100), 1014.6(†<100), 635.18(†88)
979.65 21	0.062 13	¹⁵¹ Nd(12.44 m)	116.80(43.4), 255.68(16.4), 1180.89(14.8)
• 979.67 3	2.8×10^{-8} 5	²³⁹ Pu(24110 y)	51.624(0.007100), 38.661(0.000500), 129.297(0.00631)
979.7 3	†1.6 6	¹³¹ Ce(10.3 m)	169.42(†100), 414.25(†68), 119.18(†44)
979.7 3	1.58 17	¹⁴¹ Xe(1.73 s)	909.23(24.0), 118.705(16.1), 105.937(9.8)
979.7 3	†4.9 3	²⁰¹ Po(15.3 m)	890.1(†100), 240.1(†71.0), 904.2(†54.8)
979.76 19	6.6 6	⁷⁸ Zn(1.47 s)	224.75(43.9), 181.68(28.1), 860.30(24.5)
979.77	18.1 19	²⁵ Ne(602 ms)	89.53(95.5), 1069.30(2.3), 2202(1.1)
• 979.79 7	0.122 12	¹⁶⁹ Lu(34.06 h)	960.622(23.4), 191.2137(20.6), 1449.74(9.92)
979.8	0.7	²⁰⁰ Bi(36.4 m)	1026.5(100), 462.34(98), 419.70(91)
• 979.8 2	2.6×10^{-7} 1	²⁴² Cm(162.8 d)	44.08(0.0325), 101.90(0.0025), 157.42(0.0014)
• 979.843 15	0.214 5	¹⁴⁸ Eu(54.5 d)	550.284(98.5), 629.987(71.9), 611.293(20.5)
979.94 22	0.06	¹⁷⁶ Ta(8.09 h)	1159.28(25), 88.34(12), 1224.93(6)
979.98 2	0.0052 3	¹³⁵ La(19.5 h)	480.51(1.5), 874.51(0.164), 587.83(0.1108)
980.0 3	0.75 15	¹¹³ Rh(2.72 s)	189.7(17.0), 409.3(15.9), 219.6(3.88)
980 1	0.10 5	¹²⁷ In(1.09 s)	1597.7(49), 646.1(6.2), 805.1(5.6)
980.0 4	0.036 14	¹⁶⁷ Lu(51.5 m)	29.66(14.4), 239.22(8.6), 213.19(3.6)
980.01 10	3.25 5	¹⁷² Ta(36.8 m)	214.02(46), 95.23(17.5), 1109.27(12.4)
980.1 1	0.45 10	¹⁴² Tb(597 ms)	515.0(25), 465.0(2.7), 853.1(2.42)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
980.1 6	0.12 3	¹⁵⁶ Ho(56 m)	266.35(54.7), 137.83(51), 366.25(10.73)
980.15 7	0.277 19	²¹⁰ Rn(2.4 h)	458.25(1.7), 648.70(0.843), 570.95(0.840)
980.2 2	0.11	¹⁶¹ Er(3.21 h)	826.6(3.0), 211.15(12.2), 592.6(3.7)
980.23 15	0.125 16	¹⁹⁵ Tl(1.16 h)	563.52(10.5), 884.47(10.0), 1363.88(8.4)
• 980.23 10	7.08 14	²⁰⁶ Po(8.8 d)	1032.26(32.9), 511.36(24.1), 286.410(23.8)
980.26 5	1.49 17	¹³³ Te(55.4 m)	912.671(55.28), 647.51(19.4), 863.955(15.6)
980.29 11	0.187 16	⁹⁰ Kr(32.32 s)	1118.69(39.0), 121.82(35.5), 539.49(30.8)
980.3 4	0.78 16	¹²⁷ Sn(2.10 h)	1114.3(39), 1095.6(20), 823.1(10.9)
980.3 3	0.09	¹⁶² Ho(67.0 m)	185.005(28.6), 1220.0(22.5), 282.864(11.3)
• 980.30 20	0.130 13	¹⁷⁰ Lu(2.00 d)	84.2551(4.256), 1280.25(3.450), 2041.88(1.434)
980.3 1	1.8	²³⁴ Pa(6.70 h)	131.30(18), 946.00(13.4), 883.24(9.6)
980.3 1	2.7	²³⁴ Pa(6.70 h)	131.30(18), 946.00(13.4), 883.24(9.6)
980.38 13	0.18 6	¹⁸¹ Re(19.9 h)	365.57(56), 360.70(20), 639.30(6.4)
980.4 7	0.0043 17	¹⁶² Tb(7.60 m)	260.070(37.2), 807.53(42.8), 888.20(38.7)
980.43 10	1.33 18	¹³⁰ In(0.55 s)	1221.24(89), 774.37(46), 89.23(20.2)
980.45 2	11.55 12	¹⁴³ Ba(14.33 s)	211.475(25), 798.79(15.6), 1010.29(9.54)
980.5 2	0.114 24	¹⁵⁷ Er(18.65 m)	53.05(24), 391.32(14.2), 121.57(10.1)
980.58 10	0.265 15	¹⁰¹ Mo(14.61 m)	191.92(19), 590.91(16.4), 1012.47(12.8)
980.59 18	0.123 6	¹³⁹ Xe(39.68 s)	218.59(56), 296.53(21.7), 174.97(11.3)
980.6 1	0.138 16	¹⁰⁷ Ru(3.75 m)	194.05(9.9), 847.93(5.3), 462.61(3.66)
980.6 5	1.19 11	²²⁶ Fr(48 s)	253.73(22.3), 186.05(16.3), 253.9(2.5)
980.65 95	0.10 4	¹⁴⁰ Cs(63.7 s)	602.345(71.1), 908.25(11.6), 1200.25(6.39)
980.7	84 1	⁸ He(119.0 ms)	
980.7 3	0.83 24	¹⁸¹ Os(105 m)	238.75(44), 826.77(20), 118.03(12.9)
• 980.71 15	0.0414 22	⁷⁶ As(26.32 h)	559.101(45), 657.041(6.2), 1216.104(3.42)
980.71 15	0.33 3	⁷⁶ Br(16.2 h)	559.101(74), 657.041(15.9), 1853.67(14.7)
980.8 2	0.51 6	¹⁰⁴ Tc(18.3 m)	358.0(89), 530.5(15.6), 535.1(14.7)
980.80 20		¹⁰⁶ In(6.2 m)	632.66(100), 861.16(92), 997.87(48)
980.8 2	0.174 24	¹⁰⁹ Ru(34.5 s)	206.29(22.0), 225.98(19.6), 1929.05(13.7)
980.8 1	0.123 6	¹³⁹ Xe(39.68 s)	218.59(56), 296.53(21.7), 174.97(11.3)
• 980.81 37	0.0037 7	⁷⁷ Br(57.036 h)	238.996(23), 520.639(22.4), 297.215(4.16)
980.81 18	0.46 9	¹⁰⁶ In(5.2 m)	632.66(92), 1714.90(17.1), 861.16(10.6)
980.90 15	1.13 10	⁶⁷ Ge(18.9 m)	167.01(84), 1472.48(4.9), 910.92(3.1)
980.9 2	0.10	¹⁴² Eu(2.34 s)	768.1(10), 1658.1(1.75), 1754.1(1.49)
981.0 3	0.050 19	¹⁷⁶ Ta(8.09 h)	1159.28(25), 88.34(12), 1224.93(6)
981.02 10	0.0481 19	⁶⁶ Ga(9.49 h)	1039.30(37), 2752.01(23.38), 833.50(5.89)
981.06 8	0.0058 5	¹³³ La(3.912 h)	278.835(2.50), 302.353(1.648), 290.06(1.413)
981.1 3	0.13 3	⁹³ Rb(5.84 s)	432.61(17.4), 986.05(6.8), 213.429(6.7)
981.2	0.18 5	¹⁴¹ Ba(18.27 m)	190.328(46.0), 304.194(25.4), 276.948(23.4)
981.2	0.043 14	¹⁴⁶ Ba(2.22 s)	140.7(20.2), 251.2(19.6), 121.2(14.2)
981.2	0.18 9	¹⁸⁵ Au(4.25 m)	310.6(13), 243.1(6.6), 77.7(6)
981.2 3	†1.29 24	¹⁸⁹ Hg(7.6 m)	320.99(†100), 78.21(†63), 565.42(†48)
981.3 5	0.032 8	²²⁷ Fr(2.47 m)	90.035(39), 585.804(29.5), 64.267(14.5)
981.33 4	0.043 14	¹⁸⁴ Ta(8.7 h)	414.03(72), 252.848(43), 920.932(32.0)
981.4 10	†21	⁹⁹ Rb(59 ms)	90.8(†100), 125.2(†40), 1071.6(†26)
981.4 1	0.56 4	¹⁰⁷ Tc(21.2 s)	102.70(21.0), 177.00(9.2), 106.31(7.6)
981.4 2	0.0084 17	¹²¹ I(2.12 h)	212.189(84), 532.08(6.07), 598.74(1.47)
981.4 3	†23	¹⁵⁴ Nd(25.9 s)	151.703(†800), 799.55(†600), 180.693(†510)
981.4 8	0.24	¹⁶⁷ Dy(6.20 m)	569.7(48), 259.33(27.9), 310.26(25.0)
981.5 9	0.136 14	¹⁰⁵ Cd(55.5 m)	961.84(4.69), 346.870(4.20), 1302.459(3.98)
981.5	†3.0	¹⁰⁷ Sn(2.90 m)	1129.2(†100), 678.5(†100), 1540.6(†30)
981.54 9	>0.00011	¹³⁶ La(9.87 m)	818.514(2.3), 760.50(0.289), 1322.76(0.264)
• 981.59 6	0.0084 14	¹⁵⁴ Eu(8.593 y)	123.071(40.79), 1274.436(35.19), 723.304(20.22)
981.60 20	†0.044 13	⁷¹ Se(4.74 m)	147.50(†211), 1095.26(†43.6), 830.33(†43.2)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
981.6 4	0.59 18	¹¹⁹ Cd(2.69 m)	292.9(36.8), 343.0(16.9), 1609.7(10.9)
981.6 5	0.19 4	¹²¹ Xe(40.1 m)	252.7(13), 132.8(10.9), 445.2(7.7)
981.6 4	1.06 7	¹³⁹ Pm(4.15 m)	402.8(15), 463.1(4.1), 367.8(3.52)
981.6 3	0.0217 23	¹⁴¹ Nd(2.49 h)	1126.8(0.8), 1292.6(0.46), 1147.2(0.306)
981.6 3	0.125 25	¹⁵² Pm(4.1 m)	121.7824(15.7), 841.586(2.17), 961.06(1.92)
981.6 3	0.72 21	²³⁴ Pa(6.70 h)	131.30(18), 946.00(13.4), 883.24(9.6)
981.7 3	2.11 13	⁶³ Co(27.4 s)	87.13(48.7), 155.6(1.60), 1364.5(1.43)
981.7 4	0.0293 16	⁸¹ Rb(30.5 m)	49.56(0.78), 643.6(0.115), 1194.9(0.112)
981.7	0.74 9	¹⁴¹ Ba(18.27 m)	190.328(46.0), 304.194(25.4), 276.948(23.4)
981.71 35		¹⁹¹ Au(3.18 h)	586.45(17), 277.88(7.2), 674.19(6.8)
981.8 7	0.28 6	¹⁰³ Cd(7.3 m)	1461.81(12), 1448.70(5.55), 1079.90(5.44)
981.80 5	0.0214 14	¹⁵⁹ Ho(33.05 m)	121.012(36.2), 131.973(23.6), 309.594(17.2)
981.8 9	1.27 22	¹⁷⁴ Re(2.40 m)	243.4(37), 113.0(19.8), 1002.9(5.62)
981.8 3	0.200 25	¹⁸⁴ Au(53.0 s)	162.97(50), 272.98(40), 362.47(17.5)
981.82 3	0.210 7	¹⁵⁵ Dy(9.9 h)	226.918(68.4), 184.564(3.37), 1089.8(>2.8)
982.0 5	0.24 5	¹⁴² Eu(1.22 m)	768.1(100), 1023.3(92.0), 556.6(86.6)
982.0 4	0.31 6	¹⁵⁴ Tb(9.4 h)	123.071(30), 247.925(22.1), 540.18(20)
982.00 15	0.0096 17	¹⁶⁶ Tm(7.70 h)	778.817(18.9), 2052.36(17.2), 184.410(16.1)
982.0 5	>0.025	²³⁰ Ac(122 s)	454.95(8), 508.20(5.15), 1243.9(3.50)
982.01 17	0.9 3	¹⁷⁵ Tm(15.2 m)	514.868(65), 941.23(15), 363.942(12.7)
982.1 5	0.065 14	¹⁵¹ Tb(17.609 h)	287.357(28.3), 251.863(26.3), 108.088(24.3)
• 982.1 4	0.016 6	¹⁵³ Tb(2.34 d)	212.038(31.0), 170.504(6.8), 109.758(6.4)
982.1 3	2.6 3	¹⁸⁰ Lu(5.7 m)	407.94(43.0), 1199.7(24.3), 1106.00(22.7)
982.2 2	26.4 8	¹³⁹ Nd(5.50 h)	113.94(40), 737.96(35), 708.06(26.4)
982.25 5	0.209 12	¹³⁷ Xe(3.818 m)	455.490(31), 848.95(0.62), 1783.43(0.415)
982.27 5	0.0160 5	¹²⁹ Te(69.6 m)	27.81(16.3), 459.60(7.70), 487.39(1.42)
982.4 5	0.95 13	⁹⁷ Sr(426 ms)	1905.0(25), 953.8(21.4), 652.2(11.4)
982.4 7	0.08 3	²⁴⁵ Pu(10.5 h)	327.428(25.4), 560.13(5.4), 308.222(4.9)
982.45 4	10.2 7	¹⁷⁵ Tm(15.2 m)	514.868(65), 941.23(15), 363.942(12.7)
982.5 5	0.85 11	¹⁶⁴ Tb(3.0 m)	168.838(25.4), 754.80(23.3), 215.07(21)
• 982.62 16	0.0020 7	¹⁴⁵ Eu(5.93 d)	893.73(66), 653.512(15.0), 1658.53(14.9)
982.7 4	0.46 8	¹⁴⁰ Xe(13.60 s)	805.52(20), 1413.66(12.2), 1315.05(8.2)
982.7 2	0.203 11	²⁰⁸ Tl(3.053 m)	2614.533(99), 583.191(84.5), 510.77(22.6)
• 982.7 3	1.1×10^{-8} 3	²³⁹ Pu(24110 y)	51.624(0.007100), 38.661(0.000500), 129.297(0.00631)
982.73 15	0.017 5	²⁴⁶ Am(25.0 m)	1078.86(27.7), 798.80(25), 1062.04(17.1)
• 982.73 15	0.22 2	²⁴⁶ Bk(1.80 d)	798.80(61), 1081.40(5.8), 833.60(5.0)
982.75 13	0.0379 11	⁷³ Se(7.15 h)	360.80(108), 67.03(78), 865.09(0.584)
982.75 10	1.25 9	¹⁹⁷ Tl(2.84 h)	425.84(12.9), 152.22(7.2), 1411.34(4.5)
982.8 6	0.18	²⁰³ Bi(11.76 h)	820.3(30), 825.2(14.6), 896.9(13)
982.9 4		¹⁴⁰ Gd(15.8 s)	174.8(76), 749.9(70), 379.0(38)
982.9 2	†6.4 3	²⁰³ At(7.4 m)	639.4(†100), 641.5(†55.8), 738.1(†38.4)
982.969 17	0.020 9	²⁸ Mg(20.91 h)	30.6383(95), 1342.27(52.6), 941.72(38.3)
• 982.98 5	0.0090 5	¹⁴⁷ Eu(24.1 d)	197.299(27), 121.220(22.9), 677.516(9.8)
983.0 15	†4.8 14	⁸⁷ Nb(2.6 m)	200.95(†100), 470.63(†73), 1066.8(†37)
983.0 4	0.30 10	¹¹⁸ Cs(14 s)	337.4(100), 472.8(37.4), 586.6(15.4)
983	9	¹⁵⁰ Ho(72 s)	803.4(90), 591.3(23), 653.3(15.3)
983.0 3	0.067 11	¹⁵³ Dy(6.4 h)	80.723(11.10), 213.754(10.90), 99.659(10.51)
983.0 10	0.12 3	¹⁶³ Yb(11.05 m)	860.28(10.1), 63.62(6.5), 123.21(1.98)
983.0 5	0.24 9	²⁰⁷ Rn(9.25 m)	344.53(46), 747.15(14.2), 402.68(11.9)
983	4.0 6	²¹¹ Fr(3.10 m)	539.9(20), 918.3(11), 281(6.8)
983.0 3	0.009	²³⁸ Am(98 m)	962.77(28), 918.69(23.0), 561.11(10.9)
• 983.0 3	5×10^{-7} 3	²⁴² Cm(162.8 d)	44.08(0.0325), 101.90(0.0025), 157.42(0.0014)
983.1 6	0.039 11	¹⁷⁹ Re(19.5 m)	430.221(28), 289.968(26.9), 1680.244(13.0)
983.12 4	4.57 21	²⁰⁸ At(1.63 h)	686.527(98), 660.040(89), 177.595(48.6)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
983.17 20	0.0089 16	¹⁷⁹ Lu(4.59 h)	214.335(11.3), 214.930(0.46), 123.3790(0.45)
983.2	0.0021 8	⁹⁶ Tc(51.5 m)	778.224(1.9), 1200.231(1.08), 480.705(0.311)
983.211 18	0.0040 8	¹⁷³ Hf(23.6 h)	123.672(83), 296.974(33.9), 139.634(12.7)
983.3 3	7.3 3	¹⁴¹ Sm(22.6 m)	196.88(74), 431.6(40.4), 777.6(20.3)
983.4	0.008	¹³⁵ Ce(17.7 h)	265.56(41.8), 300.07(23.5), 606.76(18.8)
• 983.4 4	0.172 21	¹⁴⁷ Gd(38.06 h)	229.32(63), 396.00(34.3), 929.01(20.2)
983.4 5	0.088 17	¹⁵¹ Tb(17.609 h)	287.357(28.3), 251.863(26.3), 108.088(24.3)
983.4 2	†0.4 2	¹⁷² Ir(2.0 s)	227.8(†100.0), 378.4(†62.0), 448.4(†40.5)
983.5 5	5.4 5	⁹⁰ Tc(49.2 s)	1054.3(100), 948.1(100), 944.7(36.6)
983.5 4	0.028 19	⁹⁸ Nb(51.3 m)	787.374(93), 722.645(73.8), 1168.830(17.8)
983.5 5	†2.5 6	¹⁴² Xe(1.22 s)	571.83(†100), 657.05(†79), 538.24(†77)
983.5 2	0.028 12	¹⁵¹ Nd(12.44 m)	116.80(43.4), 255.68(16.4), 1180.89(14.8)
983.5 5	0.040 8	²²⁷ Fr(2.47 m)	90.035(39), 585.804(29.5), 64.267(14.5)
• 983.517 5	100.1 3	⁴⁸ Sc(43.67 h)	1312.096(100.1), 1037.599(97.6), 175.361(7.48)
• 983.517 5	99.98 20	⁴⁸ V(15.9735 d)	1312.096(97.5), 944.104(7.76), 2240.375(2.41)
983.58 15	0.17 6	⁴⁴ K(22.13 m)	1157.031(58), 2150.76(22.7), 2518.95(9.69)
983.59 8	1.24 15	¹⁰⁰ Y(735 ms)	212.531(73), 118.59(15.4), 665.98(7.7)
983.65 5	0.88 13	²⁰² Bi(1.72 h)	960.67(99), 422.18(83.7), 657.49(60.6)
• 983.67 5	0.0049 16	⁷¹ As(65.28 h)	174.954(82.00), 1095.490(4.08), 499.876(3.624)
• 983.67 20	0.314 22	¹⁷⁰ Lu(2.00 d)	84.2551(4.256), 1280.25(3.450), 2041.88(1.434)
983.7	0.18 3	⁹⁹ Rh(4.7 h)	340.71(70), 617.8(12.0), 1261.2(11)
983.73 10	2.06 6	¹⁵¹ Dy(17.9 m)	386.10(19.4), 49.46(18.0), 546.31(14.3)
983.8	1.18 16	⁹⁵ Sr(23.90 s)	685.6(23), 2717.3(4.6), 2933.1(4.1)
983.8 3	0.052 9	¹¹² Ag(3.130 h)	617.27(43), 1387.67(5.4), 606.49(3.1)
983.85 17	0.32 7	¹⁰⁵ In(5.07 m)	131.37(41), 260.21(15.7), 604.11(9.2)
983.85 5		¹⁶⁸ Lu(5.5 m)	1483.65(†100), 228.58(†97), 111.8(†68)
983.85 5	11.9 20	¹⁶⁸ Lu(6.7 m)	198.82(28), 979.22(20), 896.12(15)
983.9	>0.14	⁹⁵ Rh(5.02 m)	941.6(72), 1352.0(20.8), 677.6(5.80)
983.9 2	0.97 17	¹¹⁹ Cd(2.20 m)	1025.0(24.8), 2021.3(22.6), 720.7(17.9)
983.9 1	0.0049 16	¹²⁶ Cs(1.64 m)	388.633(41), 491.243(5.0), 925.24(4.56)
983.9 2	0.75 3	¹³³ Ce(4.9 h)	477.22(39), 510.36(20.7), 58.39(19.2)
983.9 2	0.06	¹³³ Ce(4.9 h)	477.22(39), 510.36(20.7), 58.39(19.2)
984.0 2	0.15 3	¹⁰⁴ Tc(18.3 m)	358.0(89), 530.5(15.6), 535.1(14.7)
984.0 10	1.5 5	¹¹⁸ Sb(5.00 h)	1229.68(100), 253.68(99), 1050.69(97)
984	†0.09 1	¹³⁶ Pm(107 s)	373.8(†100), 602.7(†38.4), 857.2(†23.4)
984.0 20	0.032 5	¹⁴⁵ Gd(23.0 m)	1757.9(34.2), 1880.6(32.6), 1041.8(9.9)
984.0 20	>0.00046	¹⁵⁷ Dy(8.14 h)	326.16(92), 182.20(1.84), 83.01(0.62)
984.0 5	†1.7 4	¹⁸³ Hg(9.4 s)	60.5(†100), 159.91(†21), 172.70(†17)
984.02 2	59 3	²⁰⁴ Bi(11.22 h)	899.15(98), 374.72(82), 911.78(13.5)
• 984.09 14	0.175 19	¹⁶⁹ Lu(34.06 h)	960.622(23.4), 191.2137(20.6), 1449.74(9.92)
984.1 4	0.61 13	⁶¹ Fe(5.98 m)	1205.07(44), 1027.42(42.7), 297.90(22.2)
984.1 4	0.045 9	¹²⁰ Xe(40 m)	25.1(30), 72.6(9), 178.1(6.8)
984.2 3	0.27 3	⁸⁸ Nb(7.8 m)	1057.01(89.3), 1082.53(53.9), 399.41(45.7)
984.2 3	1.14 24	¹²⁶ Ba(100 m)	233.6(19.6), 257.6(7.6), 241.0(6.0)
984.2 2	0.59 4	¹³² I(2.295 h)	667.718(99), 772.60(75.6), 954.55(17.6)
984.2 1	1.62 15	²³⁴ Pa(6.70 h)	131.30(18), 946.00(13.4), 883.24(9.6)
984.3 10	<0.28	¹²⁹ Sb(4.40 h)	812.8(43), 914.6(20.0), 544.7(17.9)
984.3 2	0.148 25	¹²⁹ La(11.6 m)	278.6(25), 110.5(16.9), 457.0(8.0)
984.30 3	0.084 8	¹³⁵ Ce(17.7 h)	265.56(41.8), 300.07(23.5), 606.76(18.8)
984.3 4	0.45 6	¹⁵⁴ Tb(9.4 h)	123.071(30), 247.925(22.1), 540.18(20)
• 984.4 5	0.014 3	¹²⁴ I(4.18 d)	602.730(60), 1690.980(10.41), 722.786(9.98)
984.4 2		¹⁵¹ Tm(5.2 s)	
984.4 5	0.056 22	¹⁹⁹ Pb(90 m)	366.90(44.2), 353.39(9.5), 1135.04(7.8)
• 984.43 10	0.096 12	¹⁵⁶ Tb(5.35 d)	534.318(66.6), 199.2132(40.9), 1222.36(31.00)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
984.45 90	0.11 4	¹⁴⁰ Cs(63.7 s)	602.345(71.1), 908.25(11.6), 1200.25(6.39)
984.45 20	1.30 12	¹⁸⁶ Au(10.7 m)	191.56(62), 298.67(25.4), 764.89(10.5)
• 984.45 2	27.8	²³⁸ Np(2.117 d)	1028.54(20.3), 1025.87(9.6), 923.98(2.86)
984.45 2	0.115 14	²³⁸ Am(98 m)	962.77(28), 918.69(23.0), 561.11(10.9)
• 984.45 2	2.0×10^{-6} 8	²⁴² Cm(162.8 d)	44.08(0.0325), 101.90(0.0025), 157.42(0.0014)
984.5 6	0.08 4	⁶⁰ Cu(23.7 m)	1332.501(88), 1791.6(45.4), 826.06(21.7)
984.5 3	0.074 14	¹⁴² Ba(10.6 m)	255.300(20.5), 1204.3(14.23), 895.2(13.9)
• 984.5	0.0095 18	¹⁵⁴ Eu(8.593 y)	123.071(40.79), 1274.436(35.19), 723.304(20.22)
984.5 5	0.29 7	¹⁶¹ Tm(33 m)	45.54(5.00), 1648.1(9.50), 84.40(9.4)
984.58 17	0.070 19	¹⁰⁵ Cd(55.5 m)	961.84(4.69), 346.870(4.20), 1302.459(3.98)
984.6 3	0.52 10	⁵⁵ Co(17.53 h)	931.3(75), 477.2(20.2), 1408.4(16.88)
984.60 20	0.0104 19	¹⁰⁵ Ru(4.44 h)	724.21(47), 469.37(17.5), 676.36(15.7)
984.6 6	2.2 4	¹⁶⁶ Lu(1.41 m)	228.12(15), 102.38(13), 285.07(11.0)
984.6	†7	²³⁸ Pa(2.3 m)	1015.3(†<100), 1014.6(†<100), 635.18(†88)
984.64 8	†114	²⁷ Na(301 ms)	1697.94(†15.5), 3109.2(†>3.4), 955.32(†1.1)
984.7 2	0.37 15	⁷³ Br(3.4 m)	64.9(37.0), 336.0(10.4), 699.8(9.1)
984.78 5	0.0747 13	¹²⁷ Cs(6.25 h)	411.95(62.8), 124.70(11.37), 462.31(5.07)
984.9 1	4.0 3	⁷⁴ Br(25.4 m)	634.78(64), 219.05(18.1), 634.26(14.1)
984.9 1	3.4 5	⁷⁴ Br(46 m)	634.78(91), 728.37(35.6), 634.26(16.4)
984.9 4	2.4 8	¹²⁰ In(46.2 s)	1171.3(96), 1023.1(55), 863.7(32.5)
984.92 4	0.0064 4	¹⁶⁵ Dy(2.334 h)	94.700(3.58), 361.68(0.84), 633.415(0.568)
984.93 5	2.02 17	¹⁴³ Gd(112 s)	271.94(84), 588.00(15.7), 798.89(10.7)
985.0 7	6.1 4	³⁰ Na(48 ms)	1482.1(42), 1978.1(10.4), 4966.3(6.8)
985.0 7	†12 22	³¹ Na(17.0 ms)	1482.1(†100), 1978.1(†22), 1820.1(†20)
985.0 4	0.218 14	⁹¹ Tc(3.14 m)	2450.90(13.5), 1639.90(9.2), 1605.20(7.77)
985 1	†1.8 3	⁹⁴ Kr(0.20 s)	629.2(†100), 764.5(†71), 219.466(†67.4)
985.0 5	1.21 7	¹⁹⁹ Bi(27 m)	560.1(22.0), 424.85(22), 841.7(11)
985.0 8	0.0014	²³³ Th(22.3 m)	86.477(2.7), 29.374(2.5), 459.222(1.4)
985.02 14	0.41 4	¹⁹⁷ Pb(43 m)	385.85(74), 387.72(25.1), 222.45(24.6)
985.03 3	31.2 19	¹¹⁰ Sb(23.0 s)	1211.87(92), 1243.6(13.4), 827.1(9.4)
985.05 13	†5.3 6	⁸² Ga(0.602 s)	1348.07(†100), 2215.0(†22.0), 867.46(†13.4)
985.08 20	0.00033 20	¹⁸⁸ Re(16.98 h)	155.032(14.9), 632.99(1.25), 477.99(1.0)
• 985.08 20	0.065 12	¹⁸⁸ Ir(41.5 h)	155.032(29.7), 2214.62(18.7), 632.99(18)
985.1 4	†0.9 3	¹⁵² Tb(17.5 h)	344.281(†1500), 586.294(†223), 271.135(†203)
• 985.10 10	0.896 18	¹⁷⁰ Lu(2.00 d)	84.2551(4.256), 1280.25(3.450), 2041.88(1.434)
985.1 6	0.052 17	¹⁹² Au(4.94 h)	316.50791(58.0), 295.95827(22.3), 2236.89(5.6)
985.1 5	0.31	²⁰³ Bi(11.76 h)	820.3(30), 825.2(14.6), 896.9(13)
985.12 6	1.15 5	¹⁶² Tm(21.70 m)	102.00(17.5), 798.68(8.4), 227.52(7)
985.2 4	0.075 19	⁹⁸ Nb(51.3 m)	787.374(93), 722.645(73.8), 1168.830(17.8)
985.2 1		¹²⁵ La(76 s)	67.6(34), 43.6(3.5), 1240.6
985.2 2	0.153 24	¹⁸³ Au(42.0 s)	161.18(9.4), 214.13(5.9), 313.08(5.0)
985.2 1	0.85 12	²⁰⁹ At(5.41 h)	545.0(91), 781.9(83.5), 790.2(63.5)
• 985.28 10	0.0042 3	¹⁴⁷ Eu(24.1 d)	197.299(27), 121.220(22.9), 677.516(9.8)
985.3 3	2.86 23	⁹⁷ Rb(169.9 ms)	167.1(26), 585.2(21.0), 600.5(10.6)
985.3 4	0.39 6	¹⁰⁹ Sn(18.0 m)	1099.4(30), 649.90(28.0), 1321.3(11.9)
985.3 3	0.027 12	¹⁵¹ Nd(12.44 m)	116.80(43.4), 255.68(16.4), 1180.89(14.8)
985.36 35		¹⁹¹ Au(3.18 h)	586.45(17), 277.88(7.2), 674.19(6.8)
985.4 5	0.080 24	⁹⁰ Rb(258 s)	831.69(94), 1375.36(16.7), 3317.00(14.4)
985.4 5	0.017 5	⁹⁰ Rb(158 s)	831.69(28), 1060.70(6.69), 4365.90(5.6)
985.4 4	1.6 3	¹³⁰ Sb(6.3 m)	839.49(100), 793.53(86), 182.36(41)
985.4 2	†18 1	¹³⁹ I(2.29 s)	527.7(†100), 571.2(†98), 536.6(†67)
985.5 7	†2.6 9	¹⁶⁰ Tm(9.4 m)	125.8(†100), 728.5(†37), 264.1(†27)
985.53 15	0.0098 17	¹⁶⁶ Tm(7.70 h)	778.817(18.9), 2052.36(17.2), 184.410(16.1)
• 985.65 4	0.0210 10	¹⁷¹ Lu(8.24 d)	739.78(47.8), 19.394(13.7), 667.404(11.04)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
985.69 4	0.143 14	¹⁵⁷ Eu(15.18 h)	63.929(23.0), 410.723(17.5), 370.509(11.0)
985.7 1	0.227 13	¹⁴³ Cs(1.78 s)	195.554(13), 232.421(8.32), 306.424(6.80)
985.7 5	0.015 3	²⁴⁰ Np(7.22 m)	554.60(20.9), 597.40(11.7), 1496.9(1.33)
985.73 6	0.0986 22	⁷⁷ Ge(11.30 h)	264.44(54), 211.03(30.8), 215.50(28.6)
985.780 16	1.315 24	⁸⁸ Kr(2.84 h)	2392.11(34.6), 196.301(25.98), 2195.842(13.18)
985.8 2	0.128 22	¹⁰⁹ Ru(34.5 s)	206.29(22.0), 225.98(19.6), 1929.05(13.7)
985.8 8	0.37 5	¹⁴² Cs(1.70 s)	359.598(27.2), 1326.46(12.92), 966.89(9.0)
985.8 2	†3.1 7	¹⁵⁹ Yb(1.58 m)	166.16(†500), 177.12(†159), 390.20(†113)
985.8 3	0.112 18	¹⁶⁷ Lu(51.5 m)	29.66(14.4), 239.22(8.6), 213.19(3.6)
985.8 7	0.24 8	¹⁷⁵ Ta(10.5 h)	207.4(14.0), 348.5(12.0), 266.9(10.8)
985.8 4	†46 4	¹⁹⁵ Bi(183 s)	807.6(†100), 831.7(†100), 776.2(†95)
985.8 3	0.37 14	²⁰⁷ Rn(9.25 m)	344.53(46), 747.15(14.2), 402.68(11.9)
985.864	2.09 4	³⁹ Cl(55.6 m)	1267.185(54), 250.332(46.3), 1517.508(39.2)
985.90 20	0.54 5	²⁰⁹ Rn(28.5 m)	408.32(50.3), 745.78(22.8), 337.45(14.5)
985.93 23	0.31 4	¹⁴¹ Xe(1.73 s)	909.23(24.0), 118.705(16.1), 105.937(9.8)
985.94 20	0.25 3	¹⁶³ Yb(11.05 m)	860.28(10.1), 63.62(6.5), 123.21(1.98)
985.98 13	0.151 10	¹⁴¹ Cs(24.94 s)	48.53(7.90), 561.63(4.7), 1194.02(3.95)
986.02 11	0.302 11	¹³⁹ Xe(39.68 s)	218.59(56), 296.53(21.7), 174.97(11.3)
986.03 4	0.95 3	²⁴⁶ Am(25.0 m)	1078.86(27.7), 798.80(25), 1062.04(17.1)
• 986.03 4	0.26 3	²⁴⁶ Bk(1.80 d)	798.80(61), 1081.40(5.8), 833.60(5.0)
986.05 6	6.8 4	⁹³ Rb(5.84 s)	432.61(17.4), 213.429(6.7), 1385.21(5.7)
986.05 6	4100	⁹⁴ Rb(2.702 s)	432.61(†9000), 213.429(†6000), 709.95(†2500)
986.2 4	0.06 3	¹⁸⁵ Au(4.25 m)	310.6(13), 243.1(6.6), 77.7(6)
986.3 4	0.20 10	¹²¹ Cs(155 s)	153.9(15.2), 239.6(7.7), 427.1(3.63)
986.3 4	0.16 8	¹²¹ Cs(122 s)	179.4(30.2), 196.0(24.1), 459.7(12.0)
986.3 4	0.017 6	¹⁵¹ Tb(17.609 h)	287.357(28.3), 251.863(26.3), 108.088(24.3)
986.4 3	0.29 3	⁸⁸ Br(16.5 s)	775.28(63), 802.14(13.13), 1440.69(4.72)
986.4 10	0.24 8	¹³⁰ La(8.7 m)	357.4(81.0), 550.7(25.9), 908.0(17.0)
• 986.443 35	0.00133 12	⁹⁹ Mo(65.94 h)	739.50(12.1), 181.063(6.08), 140.511(4.52)
986.5 2	0.7 5	⁷⁴ Br(46 m)	634.78(91), 728.37(35.6), 634.26(16.4)
986.5 4	0.090 14	¹⁵³ Dy(6.4 h)	80.723(11.10), 213.754(10.90), 99.659(10.51)
986.5 2	0.070 17	¹⁷³ Ta(3.14 h)	172.2(18), 69.70(5.9), 90.3(5.0)
986.5 7	0.84 14	²⁰¹ Bi(108 m)	629.1(24.0), 936.2(11.3), 1014.1(10.7)
986.5 3	0.176 22	²³⁰ Fr(19.1 s)	711.0(13.6), 129.1(11.0), 728.4(7.3)
986.52 7	0.352 20	¹¹⁵ Sb(32.1 m)	497.358(98), 489.27(1.3), 1236.52(0.58)
986.6 2	0.21 4	¹⁰⁴ Tc(18.3 m)	358.0(89), 530.5(15.6), 535.1(14.7)
986.6 3	0.64 10	¹⁴⁹ Dy(4.20 m)	100.8(15.2), 789.4(11.8), 1776.3(11.1)
986.6 2	†1.11 10	¹⁵⁸ Ho(11.3 m)	218.21(†100.0), 98.91(†70), 945.7(†37)
986.64 3	0.029 3	¹²⁸ Cs(3.66 m)	442.901(26.8), 526.557(2.41), 1140.079(1.168)
986.65 11	0.072 11	¹⁸⁹ Pt(10.87 h)	721.41(9.3), 94.33(7.6), 568.84(7.1)
986.68 10	0.0023 5	¹⁴⁹ Nd(1.728 h)	211.309(25.9), 114.314(19.2), 270.166(10.7)
986.7 2	0.032 7	¹⁷⁶ Ta(8.09 h)	1159.28(25), 88.34(12), 1224.93(6)
986.8 5	0.27 5	⁸⁵ Zr(7.86 m)	454.20(45), 416.3(27.0), 1198.4(4.8)
• 986.8 4	>0.0035	¹⁰⁶ Ag(8.28 d)	511.842(88), 1045.83(29.6), 717.24(28.9)
986.84 6	1.13 8	¹⁵⁸ Eu(45.9 m)	944.09(25), 977.131(13.6), 79.5104(11)
986.91 10	0.164 14	¹⁰⁵ Cd(55.5 m)	961.84(4.69), 346.870(4.20), 1302.459(3.98)
• 986.91 4	2.1×10^{-8} 4	²³⁹ Pu(24110 y)	51.624(0.007100), 38.661(0.000500), 129.297(0.00631)
986.93 15	0.0034 8	¹⁶ N(7.13 s)	6128.63(67.0), 7115.15(4.9), 2741.5(0.82)
986.98 6	11	¹⁸⁶ Ir(2.0 h)	137.155(27), 767.508(21.2), 630.354(18.0)
987.00 20	0.0071 14	¹⁰⁵ Ru(4.44 h)	724.21(47), 469.37(17.5), 676.36(15.7)
987.0 4	0.095 14	¹⁵³ Dy(6.4 h)	80.723(11.10), 213.754(10.90), 99.659(10.51)
987.0 10	3.9 9	¹⁶⁸ Ta(2.0 m)	124.0(35.6), 261.6(22.7), 751.4(7.3)
987.0 3	5.88 21	¹⁷⁰ Ta(6.76 m)	100.8(21.0), 221.2(15.7), 860.4(7.39)
987.0 3	3.36 13	¹⁷⁰ Ta(6.76 m)	100.8(21.0), 221.2(15.7), 860.4(7.39)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
987.0 5	>0.025	²³⁰ Ac(122 s)	454.95(8), 508.20(5.15), 1243.9(3.50)
987.1 5	0.034 25	⁸² Rb(6.472 h)	776.517(84), 554.348(62.4), 619.106(37.976)
987.1 3	†0.18 5	¹⁶⁰ Ho(5.02 h)	728.18(†100), 879.383(†65.9), 962.317(†59.1)
987.1 1	†8.6 9	¹⁷¹ Ta(23.3 m)	49.6(†100), 506.4(†54), 501.8(†22.6)
987.1 3	0.040 4	¹⁸³ Hf(1.067 h)	783.754(66), 73.174(38), 459.069(27)
987.13 9	†15	¹⁹⁷ Ir(5.8 m)	469.72(†100), 430.56(†61), 815.92(†45)
987.17 4	2.15 17	¹³³ Sb(2.5 m)	1096.22(43.0), 817.8(18.5), 2755(12.5)
• 987.25 10	0.314 5	¹⁷⁰ Lu(2.00 d)	84.2551(4.256), 1280.25(3.450), 2041.88(1.434)
987.28 4	2.8 1	¹⁸⁷ Ir(10.5 h)	912.95(4.79), 427.12(4.12), 400.89(3.94)
987.3 5	0.08 3	⁴⁹ Ca(8.715 m)	3084.4(92), 4071.9(7.0), 1408.9(0.63)
987.3 10	0.14 5	⁹⁰ Mo(5.67 h)	257.34(78), 122.370(64.2), 203.13(6.4)
987.4 6	0.23 5	¹¹⁷ Cs(8.4 s)	204.8(15.0), 29.7(9.9), 205.6(6.8)
987.4 2	0.67 4	¹⁹⁰ Au(42.8 m)	295.78(71.0), 301.82(23.4), 597.67(9.4)
987.41 20	0.051 16	²²⁸ Ac(6.15 h)	911.205(26.6), 968.971(16.2), 338.322(11.3)
987.41 20	0.044	²²⁸ Pa(22 h)	911.205(4.19), 463.005(1.250), 964.770(4.25)
• 987.44 6	0.93 9	¹⁸⁸ Ir(41.5 h)	155.032(29.7), 2214.62(18.7), 632.99(18)
987.48 10	0.42 3	⁹⁸ Nb(51.3 m)	787.374(93), 722.645(73.8), 1168.830(17.8)
987.5 5	0.16 5	¹³⁸ I(6.49 s)	588.825(56), 875.23(9.2), 2262.19(3.86)
• 987.55 5	<0.00031	²⁰⁵ Bi(15.31 d)	1764.36(1.368), 703.44(31), 987.62(0.585)
987.57 9	5.1 5	⁸⁶ Nb(88 s)	751.74(97.8), 914.81(78.1), 1003.24(37.4)
987.6 3	†1.4 2	⁷⁵ Ga(126 s)	253.0(†100), 574.8(†31.6), 885.6(†11.1)
987.6 7	>0.06	¹⁰³ Cd(7.3 m)	1461.81(12), 1448.70(5.55), 1079.90(5.44)
987.60 16	0.81 17	¹²² In(10.3 s)	1140.55(98), 1001.58(50.7), 1190.58(20.5)
987.60 10	1.2 3	¹²³ Cd(1.82 s)	1165.86(25.7), 1027.45(22.6), 2102.81(12.5)
987.6 4	1.0 3	¹⁴⁶ Tb(23 s)	1579.4(100), 1078.6(51.6), 1417.2(17.2)
987.60 20	1.32 14	²⁴⁵ Pu(10.5 h)	327.428(25.4), 560.13(5.4), 308.222(4.9)
987.62 17	0.79 12	⁸⁴ Br(31.80 m)	881.610(42), 1897.761(14.7), 3927.5(6.8)
• 987.62 3	0.585 16	²⁰⁵ Bi(15.31 d)	1764.36(1.368), 703.44(31), 1043.72(1.291)
987.7 3	0.0105 23	⁹³ Y(10.18 h)	266.9(7.3), 947.1(2.09), 1917.8(1.55)
987.7 2	1.8 4	¹⁵¹ Er(23.5 s)	638.3(36), 667.2(17), 256.4(15.9)
987.74 10	0.246 20	¹⁶³ Tm(1.810 h)	104.320(18.6), 69.229(11.6), 241.305(10.9)
987.76 6	6.7 4	²⁴⁰ Np(61.9 m)	566.34(25.3), 973.9(23.8), 600.57(18.4)
• 987.76 6	73.2 10	²⁴⁰ Am(50.8 h)	888.80(25.1), 98.860(1.5), 42.824(0.09)
987.8 3	0.048 2	⁸⁷ Br(55.60 s)	1419.71(22.0), 1476.04(7.9), 1577.60(6.0)
• 987.8 1	0.202 15	¹³¹ Te(30 h)	773.67(49.9), 852.21(27.0), 793.75(18.10)
987.8	37 4	¹⁴⁵ Tb(29.5 s)	257.8(39), 537.0(23), 1446.8(15)
987.8 3	1.30 9	¹⁴⁹ Dy(4.20 m)	100.8(15.2), 789.4(11.8), 1776.3(11.1)
987.81 10	1.9 4	¹²¹ Cd(13.5 s)	324.976(49.5), 1040.26(16.8), 349.937(12.9)
987.81 10	13.6 8	¹²¹ Cd(8.3 s)	2059.41(21.0), 1020.89(18.9), 1181.45(12.4)
987.9 5	1.75 23	⁸⁵ Se(31.7 s)	345.2(<0.23), 3396.6(7.4), 1427.2(7.0)
987.9 2	0.179 23	⁹⁶ Rb(0.199 s)	815.0(78.00), 692.0(8.0), 813.2(7.0)
987.9 6	0.21 6	¹⁰³ Cd(7.3 m)	1461.81(12), 1448.70(5.55), 1079.90(5.44)
• 987.92 5	0.285 12	¹⁵⁶ Tb(5.35 d)	534.318(66.6), 199.2132(40.9), 1222.36(31.00)
987.96 8	0.66 6	⁸³ Se(22.3 m)	356.687(70), 510.17(43), 224.8(32.7)
987.96 8	16.1 7	⁸³ Se(70.1 s)	1030.86(21.2), 356.687(18), 673.98(15.2)
988.0 5	1.16 20	⁷² Cu(6.6 s)	652.4(68), 1004.6(12.0), 1657.7(10.1)
988.0 4	0.22 3	⁹⁹ Nb(2.6 m)	97.785(7), 253.50(3.64), 2641.3(3.64)
988	†2.2	¹⁴⁹ Tb(4.16 m)	795.9(†111), 651(†37), 164.98(†8.3)
988 1		¹⁵⁸ Sm(5.30 m)	189.4(15.2), 363.6(12.4), 324.5(10.6)
988.0 15	†4	²²³ Rn(23.2 m)	591.8(†100), 635.2(†76), 416.0(†55)
988 1	†4.4 9	²⁴⁴ Bk(4.35 h)	891.5(†100), 217.6(†88), 921.5(†19)
988.2 4	0.092 22	⁷⁸ As(90.7 m)	613.725(54), 694.916(16.7), 1308.59(13.0)
988.2 5	†9 2	¹³⁵ Pm(49 s)	198.5(†100), 207.2(†70), 463.5(†62)
988.2 5	0.097 15	¹⁵⁶ Ho(56 m)	266.35(54.7), 137.83(51), 366.25(10.73)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
988.2 1	0.50 22	¹⁵⁷ Sm(482 s)	197.870(56.00), 196.461(16.8), 394.351(11.93)
988.2 3	0.18 4	¹⁸⁸ Hg(3.25 m)	66.7(63), 190.1(4.40), 82.7(2.6)
988.25 20	0.19 3	¹⁰¹ Mo(14.61 m)	191.92(19), 590.91(16.4), 1012.47(12.8)
988.27 10	1.75 10	⁷⁷ Rb(3.75 m)	66.52(57), 178.99(22.2), 393.37(9.7)
988.3 5	1.01 8	⁶⁸ As(151.6 s)	1015.96(78), 761.61(33.8), 651.12(32.1)
988.38 13	1.46 22	¹⁵⁷ Sm(482 s)	197.870(56.00), 196.461(16.8), 394.351(11.93)
988.4 1	0.423 9	¹¹³ Ag(5.37 h)	298.58(10), 258.8(1.64), 316.3(1.343)
988.4 2	0.88 4	¹⁶⁷ Lu(51.5 m)	29.66(14.4), 239.22(8.6), 213.19(3.6)
988.43 20	0.13 4	²²⁸ Ac(6.15 h)	911.205(26.6), 968.971(16.2), 338.322(11.3)
988.43 20	0.206 19	²²⁸ Pa(22 h)	911.205(4.19), 463.005(1.250), 964.770(4.25)
988.5 6	0.20 6	¹⁵⁹ Er(36 m)	624.5(33), 649.1(23.4), 205.92(9.7)
• 988.5	0.134 13	¹⁷⁰ Lu(2.00 d)	84.2551(4.256), 1280.25(3.450), 2041.88(1.434)
988.57 6	1.21 9	⁷¹ Zn(3.96 h)	386.28(93), 487.38(62), 620.18(57)
988.6 7	0.13 6	¹²⁰ In(3.08 s)	1171.3(19), 2039.8(1.86), 703.8(1.42)
988.6 7	0.063 5	¹²⁰ Sb(15.89 m)	1171.3(1.7), 703.8(0.149)
• 988.6 4	0.129 16	¹⁴⁷ Gd(38.06 h)	229.32(63), 396.00(34.3), 929.01(20.2)
988.7 3	0.129 16	¹⁵³ Dy(6.4 h)	80.723(11.10), 213.754(10.90), 99.659(10.51)
988.73 10	4.8 3	¹²³ Cd(1.82 s)	1165.86(25.7), 1027.45(22.6), 2102.81(12.5)
• 988.75 28	0.0082 21	¹⁶⁵ Tm(30.06 h)	242.917(35.5), 47.155(16.9), 297.369(12.71)
988.9 5	0.19 5	¹⁴¹ Xe(1.73 s)	909.23(24.0), 118.705(16.1), 105.937(9.8)
988.9 10	0.21 5	¹⁷² Ta(36.8 m)	214.02(46), 95.23(17.5), 1109.27(12.4)
988.93 20	0.27 5	¹²⁶ In(1.60 s)	1141.11(55.9), 3344.61(21.6), 969.61(14.9)
• 988.94 4	>0.031	²⁰⁵ Bi(15.31 d)	1764.36(1.368), 703.44(31), 987.62(0.585)
989.0 3	0.059 5	⁸⁵ Y(4.86 h)	231.67(22.8), 2123.8(5.0), 767.40(3.6)
• 989.0 5	0.025 16	¹⁵³ Tb(2.34 d)	212.038(31.0), 170.504(6.8), 109.758(6.4)
989.0 3	0.084 22	¹⁷⁹ Re(19.5 m)	430.221(28), 289.968(26.9), 1680.244(13.0)
989.01 9	80.1 7	⁵⁴ V(49.8 s)	834.848(97.1), 2259.35(45.6), 3170(11.5)
989.02 10	3.04 24	¹⁴⁰ Xe(13.60 s)	805.52(20), 1413.66(12.2), 1315.05(8.2)
989.06 10	3.7 3	¹⁵⁸ Tm(3.98 m)	192.13(62), 335.10(16.8), 1149.83(7.6)
989.1 3	0.58 5	¹²⁰ Xe(40 m)	25.1(30), 72.6(9), 178.1(6.8)
989.1 3	0.15 5	¹²⁷ In(1.09 s)	1597.7(49), 646.1(6.2), 805.1(5.6)
989.1 2	1.13 11	¹²⁸ La(5.0 m)	284.00(87), 479.24(54), 643.65(14.7)
989.1 3	0.077 12	¹⁴³ Ba(14.33 s)	211.475(25), 798.79(15.6), 980.45(11.55)
989.12 2	45	²⁵⁰ Bk(3.217 h)	1031.85(35.6), 1028.65(4.91), 889.96(1.530)
989.12 2	13.3 9	²⁵⁰ Es(2.22 h)	1031.85(10.6), 828.82(5.5), 1167.25(2.94)
989.15 20	0.011 4	¹⁹⁵ Hg(9.9 h)	779.80(7), 61.46(6.2), 585.13(1.99)
989.2 4	0.61 13	⁶¹ Fe(5.98 m)	1205.07(44), 1027.42(42.7), 297.90(22.2)
989.2 6	0.011 6	²¹⁴ Bi(19.9 m)	609.312(44.8), 1764.494(15.36), 1120.287(14.80)
989.2 1	0.081 5	²⁴⁰ Np(7.22 m)	554.60(20.9), 597.40(11.7), 1496.9(1.33)
989.23 10	1.5 3	¹⁶⁸ Lu(6.7 m)	198.82(28), 979.22(20), 896.12(15)
989.5 1	0.103 10	²³⁴ Pa(6.70 h)	131.30(18), 946.00(13.4), 883.24(9.6)
989.51 4	0.88 4	⁸⁰ Ga(1.697 s)	659.14(78.0), 1083.47(48.4), 1109.36(18.6)
• 989.57 11	6.8 3	¹²⁶ Sb(12.46 d)	695.03(100), 666.331(100), 414.81(83.3)
989.6 7	0.0039 11	⁶³ Zn(38.47 m)	669.62(8), 962.06(6.5), 1412.08(0.75)
989.6 2	14.9 15	¹³² Sb(2.79 m)	973.9(99), 696.8(86), 103.4(13.9)
989.6 2	0.087 23	¹⁷³ Ta(3.14 h)	172.2(18), 69.70(5.9), 90.3(5.0)
• 989.606 10	0.464 10	¹⁴⁸ Eu(54.5 d)	550.284(98.5), 629.987(71.9), 611.293(20.5)
989.7 5	0.45 8	¹¹⁷ I(2.22 m)	325.9(75), 274.4(20.4), 661.5(5.1)
989.7 1	†0.32 9	¹⁶⁰ Ho(5.02 h)	728.18(†100), 879.383(†65.9), 962.317(†59.1)
989.7 3	0.89 22	¹⁸¹ Re(19.9 h)	365.57(56), 360.70(20), 639.30(6.4)
989.7 3	0.72 7	¹⁹⁸ Tl(5.3 h)	411.8044(82), 675.8874(11), 636.4(10.1)
989.71 16	0.058 9	¹⁵¹ Nd(12.44 m)	116.80(43.4), 255.68(16.4), 1180.89(14.8)
989.76 5	0.70 3	⁹⁵ Ru(1.643 h)	336.43(70.2), 1096.76(21.0), 626.77(17.8)
• 989.77 5	0.075 25	²⁰⁵ Bi(15.31 d)	1764.36(1.368), 703.44(31), 987.62(0.585)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
989.8 5	0.09	¹⁴² La(91.1 m)	641.285(47), 2397.8(13.3), 2542.7(10.00)
989.8 3	1.69 9	²²⁸ Fr(39 s)	473.7(10.2), 474.0(7.6), 410.40(6.3)
989.85	0.166 3	²⁵ Na(59.1 s)	974.72(14.95), 585.03(13.00), 389.70(12.68)
989.85 6	9.3 3	¹⁴⁸ La(1.05 s)	158.468(55.6), 760.30(8.6), 601.88(7.62)
989.9 5	†2.7 13	¹⁵⁵ Nd(8.9 s)	180.574(†100), 418.99(†75), 955.08(†50)
989.94 3	10.7 8	²⁰⁸ At(1.63 h)	686.527(98), 660.040(89), 177.595(48.6)
989.97 30	0.079 18	¹⁶⁵ Yb(9.9 m)	80.11(49), 68.86(9.1), 1090.28(4.4)
989.99 14	0.165 24	¹⁸³ Au(42.0 s)	161.18(9.4), 214.13(5.9), 313.08(5.0)
990.0 5	0.14 3	¹⁴¹ Eu(40.0 s)	394.0(9), 384.5(5.6), 382.9(2.97)
990.0 1	†1.09 7	¹⁵⁸ Ho(11.3 m)	218.21(†100.0), 98.91(†70), 945.7(†37)
990.0 3	0.0008	¹⁷³ Hf(23.6 h)	123.672(83), 296.974(33.9), 139.634(12.7)
990.0 7	0.00015 9	²²³ Fr(21.8 m)	50.13(36.0), 79.72(9.1), 234.81(3.0)
• 990.0 7	†0.0022 6	²²⁷ Th(18.72 d)	235.971(†813), 50.13(†528), 256.25(†463)
• 990	0.0006	²⁴⁹ Cf(351 y)	388.16(66), 333.37(14.6), 252.80(2.50)
990.09 9	0.142 17	⁸⁸ Kr(2.84 h)	2392.11(34.6), 196.301(25.98), 2195.842(13.18)
990.1 1	0.40 8	²⁰⁸ Fr(59.1 s)	635.8(10), 778.5(6.8), 325.3(5.2)
990.13 5	2.94 8	¹³³ Ce(4.9 h)	477.22(39), 510.36(20.7), 58.39(19.2)
990.13 18	0.034 3	¹⁵¹ Tb(17.609 h)	287.357(28.3), 251.863(26.3), 108.088(24.3)
990.2 6	1.02 10	⁹⁰ Mo(5.67 h)	257.34(78), 122.370(64.2), 203.13(6.4)
• 990.200 24	0.0309 13	¹⁵² Eu(13.542 y)	344.281(26.58), 778.91(12.96), 411.115(2.231)
990.200 24	†18.5 14	¹⁵² Tb(17.5 h)	344.281(†1500), 586.294(†223), 271.135(†203)
990.2 3	0.81 5	¹⁷⁷ W(135 m)	115.65(50), 426.98(13.2), 1036.4(10.3)
990.245	0.29 4	⁴³ K(22.3 h)	372.760(87), 617.490(79.2), 396.861(11.85)
990.3 4	1.4 7	⁸¹ Ge(7.6 s)	335.98(58.9), 792.94(34), 1495.53(19.9)
990.3 3	0.013 2	⁸⁷ Br(55.60 s)	1419.71(22.0), 1476.04(7.9), 1577.60(6.0)
990.34 5	1.19 12	²⁰⁴ Bi(11.22 h)	899.15(98), 374.72(82), 984.02(59)
990.50 30	0.07 3	¹¹⁴ Sb(3.49 m)	1299.90(99), 887.60(17.4), 327.18(7.0)
990.5 4		¹⁴⁴ Cs(1.01 s)	199.326(†100.0), 639.00(†21.2), 758.96(†20.6)
990.5 5	0.47 9	¹⁷⁵ Ta(10.5 h)	207.4(14.0), 348.5(12.0), 266.9(10.8)
990.6 5	0.50 5	⁸⁵ Zr(7.86 m)	454.20(45), 416.3(27.0), 1198.4(4.8)
990.6 5	1.5 3	¹⁸¹ Os(105 m)	238.75(44), 826.77(20), 118.03(12.9)
990.6 5	3.2 3	²⁰¹ Bi(108 m)	629.1(24.0), 936.2(11.3), 1014.1(10.7)
990.64 5	0.0377 6	¹²⁷ Cs(6.25 h)	411.95(62.8), 124.70(11.37), 462.31(5.07)
990.67 11	†0.93 8	⁷¹ Se(4.74 m)	147.50(†211), 1095.26(†43.6), 830.33(†43.2)
990.70 14	14.3 4	¹¹² Sb(51.4 s)	1257.05(96), 670.0(3.7), 894.60(2.7)
990.7 3	0.34 11	²⁰⁷ Rn(9.25 m)	344.53(46), 747.15(14.2), 402.68(11.9)
• 990.75 15	0.08 4	¹⁷² Lu(6.70 d)	1093.657(62.5), 900.724(29.8), 181.528(20.6)
990.80 20	0.23 5	¹⁵⁹ Tm(9.13 m)	38.35(5.8), 84.8(5.8), 271.30(5.1)
990.9 3	0.113 23	⁹³ Rb(5.84 s)	432.61(17.4), 986.05(6.8), 213.429(6.7)
990.9 3	1.39 13	¹⁰⁰ Cd(49.1 s)	936.55(66), 139.71(6.7), 582.5(6.3)
990.9 2	0.55 6	²³⁶ Pa(9.1 m)	642.35(37.0), 687.59(9.9), 1762.7(6.0)
991.0 6	0.17 3	¹³⁶ Pr(13.1 m)	552.16(76), 539.75(52), 1092.3(18.5)
991 1	>0.35	¹³⁷ Pm(2.4 m)	177.5(40.29), 108.6(35), 233.6(29.57)
991.0 4	0.058 17	¹⁶³ Tm(1.810 h)	104.320(18.6), 69.229(11.6), 241.305(10.9)
991.0 6	0.09 3	¹⁶⁷ Lu(51.5 m)	29.66(14.4), 239.22(8.6), 213.19(3.6)
991.06 7	0.68 5	⁸¹ Ga(1.221 s)	216.47(37.4), 828.26(22.1), 711.18(17.6)
991.1		²³⁸ Pa(2.3 m)	1015.3(†<100), 1014.6(†<100), 635.18(†88)
991.2 2	†1.62 10	¹²⁹ Ba(2.17 h)	182.30(†100), 1459.1(†50.0), 202.38(†33.7)
991.2 1	0.098 25	²³⁰ Ac(122 s)	454.95(8), 508.20(5.15), 1243.9(3.50)
991.23 11	†8.8 7	¹⁴² Xe(1.22 s)	571.83(†100), 657.05(†79), 538.24(†77)
991.33 12	0.046 6	¹⁹² Au(4.94 h)	316.50791(58.0), 295.95827(22.3), 2236.89(5.6)
991.38 13	0.32 5	⁸⁹ Br(4.40 s)	1097.82(6.00), 997.93(4.26), 953.53(4.26)
991.38 13	0.27 3	⁹⁰ Br(1.92 s)	411.49(3.88), 962.71(1.25), 1097.82(0.91)
991.4 8	0.070 10	²²⁶ Fr(48 s)	253.73(22.3), 186.05(16.3), 253.9(2.5)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
991.5 5	1.4 5	¹³¹ Sb(23.03 m)	943.4(47), 933.1(26.1), 642.30(23)
991.5 4	0.044 21	¹⁹⁵ Tl(1.16 h)	563.52(10.5), 884.47(10.0), 1363.88(8.4)
991.52 4	43	⁶⁴ Ga(2.630 m)	807.86(13.65), 3365.86(13.1), 1387.34(11.8)
991.59 21	0.121 20	⁹³ Sr(7.423 m)	590.238(67), 875.73(24.1), 888.13(21.8)
991.6 5	0.25 7	⁹⁸ Y(0.548 s)	1223.0(36.0), 2941.3(16.7), 1590.9(14.7)
991.6 7	0.51 6	¹⁹⁹ Bi(27 m)	560.1(22.0), 424.85(22), 841.7(11)
991.67 20	0.296 23	⁷⁷ Rb(3.75 m)	66.52(57), 178.99(22.2), 393.37(9.7)
991.7 10	†3.7	¹⁷⁷ Os(2.8 m)	84.7(†100), 125.4(†63), 195.8(†61)
991.7 3	†23.0 23	²³³ Pu(20.9 m)	235.4(†100), 534.8(†90.2), 500.3(†38.6)
• 991.72 20	0.0222 12	⁷⁷ Br(57.036 h)	238.996(23), 520.639(22.4), 297.215(4.16)
991.725 42	0.0057 4	¹³⁴ La(6.45 m)	604.699(5.05), 1554.934(0.414), 563.227(0.359)
• 991.77 6	0.042 3	¹⁶⁵ Tm(30.06 h)	242.917(35.5), 47.155(16.9), 297.369(12.71)
• 991.78 4	1.04 5	¹⁵³ Tb(2.34 d)	212.038(31.0), 170.504(6.8), 109.758(6.4)
991.8 3	0.044 11	⁷⁷ Kr(74.4 m)	129.64(81), 146.59(37.3), 312.0(3.7)
991.8 10	0.0008	¹⁷³ Hf(23.6 h)	123.672(83), 296.974(33.9), 139.634(12.7)
991.9 2	5.3 10	¹⁵¹ Er(23.5 s)	638.3(36), 667.2(17), 256.4(15.9)
991.98 18	1.5 15	¹⁰⁶ In(6.2 m)	632.66(100), 861.16(92), 997.87(48)
992 1	0.088 17	⁸⁹ Nb(1.9 h)	1627.20(3.4), 1833.46(3.16), 3092.7(3.0)
992		⁹⁰ Ru(13 s)	1002
992.0 4	0.189 25	¹²¹ Xe(40.1 m)	252.7(13), 132.8(10.9), 445.2(7.7)
992.0	1.8	¹³⁴ Nd(8.5 m)	163.2(58), 288.9(13), 216.8(12)
992.0 10	0.3 1	¹⁵⁶ Pm(26.70 s)	173.75(52.0), 1147.84(20.5), 117.42(13.8)
992 1	†3.5 7	¹⁹¹ Tl(5.22 m)	452.6(†100), 470.1(†98), 391.6(†96)
992.0 2	0.082 21	²³⁴ Pa(6.70 h)	131.30(18), 946.00(13.4), 883.24(9.6)
992.1 6	0.13 5	⁹¹ Kr(8.57 s)	108.788(43.5), 506.592(19.1), 612.87(7.7)
992.1 4	1.9 4	¹³⁰ Sb(39.5 m)	793.53(100), 839.49(100), 331.05(78)
992.128 13	87 4	¹⁷⁴ Tm(5.4 m)	366.526(92), 272.918(86), 176.645(66.2)
• 992.128 13	0.546 11	¹⁷⁴ Lu(142 d)	272.918(0.550), 176.645(0.470), 76.471(0.0638)
992.20 10	0.0016 7	⁸² Rb(1.273 m)	776.517(13), 1395.139(0.471), 698.374(0.133)
992.2 1	0.043 3	⁹¹ Sr(9.63 h)	1024.3(33), 749.8(23.61), 652.9(8.0)
• 992.204 4	0.0323 10	¹⁴⁹ Gd(9.28 d)	149.735(48.2), 298.634(28.6), 346.651(23.9)
992.21 4	0.0031	²³⁹ U(23.45 m)	74.664(48), 43.533(4.14), 662.24(0.18)
992.3 7	0.013 6	¹⁹⁹ Pt(30.80 m)	542.993(15), 493.772(5.59), 317.056(4.95)
992.33 70	0.027 8	⁹⁵ Ru(1.643 h)	336.43(70.2), 1096.76(21.0), 626.77(17.8)
992.33 9	59.3 7	²⁰⁷ Po(5.80 h)	742.64(28.2), 911.79(16.95), 405.75(9.7)
992.37 22	0.22 4	¹⁵¹ Dy(17.9 m)	386.10(19.4), 49.46(18.0), 546.31(14.3)
992.4 3	0.29 6	⁷⁵ Zn(10.2 s)	228.67(28.9), 432.29(20.2), 155.94(17.2)
992.4 2	2.7 5	¹³² La(24.3 m)	464.55(22), 663.07(11.6), 285.6(7)
992.4 2	†8.0 9	¹⁸⁵ Hg(21.6 s)	222.8(†100.0), 258.7(†98), 212.5(†58)
992.429 28	0.1021 22	¹²⁵ Xe(16.9 h)	188.418(54), 243.378(30.1), 54.968(6.81)
992.43 9	0.080 12	¹⁸⁹ Pt(10.87 h)	721.41(9.3), 94.33(7.6), 568.84(7.1)
992.44 18	0.23 8	¹⁷⁵ Ta(10.5 h)	207.4(14.0), 348.5(12.0), 266.9(10.8)
992.5 3	21.6 11	¹¹⁴ Rh(1.85 s)	332.9(87), 519.8(48.4), 618.7(31)
992.5 20	0.010 4	¹⁴⁵ Gd(23.0 m)	1757.9(34.2), 1880.6(32.6), 1041.8(9.9)
992.5	1.4	²¹¹ Rn(14.6 h)	674.1(45), 1362.9(32.5), 678.4(28.9)
• 992.55 4	0.025 3	²⁰⁵ Bi(15.31 d)	1764.36(1.368), 703.44(31), 987.62(0.585)
992.6 3	†15	¹⁵⁴ Nd(25.9 s)	151.703(†800), 799.55(†600), 180.693(†510)
• 992.64 3	2.7×10^{-8} 4	²³⁹ Pu(24110 y)	51.624(0.007100), 38.661(0.000500), 129.297(0.00631)
992.66 8	36.9 20	¹³² Sn(39.7 s)	340.53(49), 85.58(48.2), 899.04(44.8)
992.68 8	0.143 11	⁵⁷ Mn(87.2 s)	122.0614(13.9), 14.41300(10.56), 692.03(5.50)
992.7 5	0.218 14	⁹¹ Tc(3.14 m)	2450.90(13.5), 1639.90(9.2), 1605.20(7.77)
992.8 2	0.94 6	¹⁰¹ Pd(8.47 h)	296.29(19), 590.44(12.06), 269.67(6.43)
992.8 20	0.0037 14	¹⁵⁷ Dy(8.14 h)	326.16(92), 182.20(1.84), 83.01(0.62)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
992.83 6	0.0148 16	¹⁴⁹ Nd(1.728 h)	211.309(25.9), 114.314(19.2), 270.166(10.7)
992.88 5	1.10 3	⁹⁸ Nb(51.3 m)	787.374(93), 722.645(73.8), 1168.830(17.8)
• 992.9 5	0.013 5	¹⁴⁰ La(1.6781 d)	1596.210(95), 487.021(45.5), 815.772(23.28)
992.9 3	5.0 5	¹⁵⁴ Ho(3.10 m)	334.6(94), 412.4(79), 477.1(55)
992.9	2.9	²⁰⁰ Bi(36.4 m)	1026.5(100), 462.34(98), 419.70(91)
992.9 10	0.23	²²⁴ Fr(3.30 m)	215.985(33.1), 131.613(16.3), 836.90(9.8)
• 992.9 10	1.5×10^{-6}	²²⁸ Th(1.9131 y)	84.373(1.266), 215.985(0.263), 131.613(0.1355)
992.92 12	16.2 14	¹⁵⁴ Tb(22.7 h)	247.925(79), 346.643(69), 1419.81(46)
992.93 14	0.042 9	¹⁰⁵ Cd(55.5 m)	961.84(4.69), 346.870(4.20), 1302.459(3.98)
992.940 25	0.0771 18	¹⁵⁹ Ho(33.05 m)	121.012(36.2), 131.973(23.6), 309.594(17.2)
992.99 9	0.0063 5	¹³³ La(3.912 h)	278.835(2.50), 302.353(1.648), 290.06(1.413)
993 2	0.32 22	⁸³ Se(22.3 m)	356.687(70), 510.17(43), 224.8(32.7)
993.0 2	0.13 3	¹⁴⁶ La(6.27 s)	258.47(64), 924.58(7.45), 702.28(6.43)
993 3	0.23 8	¹⁸⁵ Ta(49.4 m)	177.59(25.7), 173.68(22.6), 65.86(3.9)
993.0 3	0.13 3	¹⁸⁷ Au(8.4 m)	1331.81(7.0), 1408.23(3.06), 914.73(3.02)
993	0.50	²⁰⁷ Hg(2.9 m)	351.059(77), 997.1(69), 1637.1(30)
993.0 5	0.158 16	²²⁷ Fr(2.47 m)	90.035(39), 585.804(29.5), 64.267(14.5)
993.05	0.0039 18	¹⁴⁹ Nd(1.728 h)	211.309(25.9), 114.314(19.2), 270.166(10.7)
993.1 1	0.0057 16	¹²⁶ Cs(1.64 m)	388.633(41), 491.243(5.0), 925.24(4.56)
993.1 3	0.46 5	¹⁴³ Gd(112 s)	271.94(84), 588.00(15.7), 798.89(10.7)
993.12 20	0.38 22	¹⁷⁵ Tm(15.2 m)	514.868(65), 941.23(15), 363.942(12.7)
993.18 9	0.00075 10	⁹⁴ Nb(6.263 m)	871.082(0.50), 702.626(0.00315)
993.18 9	2.21 3	⁹⁴ Tc(52.0 m)	871.082(94), 1868.68(5.7), 1522.11(4.5)
993.2 2	0.35 3	¹⁴⁶ Ba(2.22 s)	140.7(20.2), 251.2(19.6), 121.2(14.2)
993.2 3	0.50 14	²⁰⁷ Rn(9.25 m)	344.53(46), 747.15(14.2), 402.68(11.9)
993.28 6	0.0759 14	⁷³ Se(39.8 m)	67.03(2.59), 253.70(2.356), 84.0(2.03)
993.3 3	0.34 6	²⁰⁵ At(26.2 m)	719.30(31), 669.41(8.6), 628.88(5.6)
993.4 2	1.15 7	⁶⁹ Cu(2.85 m)	1007.5(23.4), 834.4(13.1), 531.2(6.0)
993.4 9	0.075 21	⁷⁹ As(9.01 m)	95.73(0.85), 364.9(1.06), 432.1(0.850)
993.4 3	2.4 4	¹²⁶ Ba(100 m)	233.6(19.6), 257.6(7.6), 241.0(6.0)
993.4	0.013	¹³⁵ Ce(17.7 h)	265.56(41.8), 300.07(23.5), 606.76(18.8)
993.46 10	0.04 3	⁶⁰ Cu(23.7 m)	1332.501(88), 1791.6(45.4), 826.06(21.7)
993.46 4	0.171 20	¹⁸³ Os(9.9 h)	1101.94(49.0), 1107.92(22.36), 1034.85(6.02)
993.5 5	1.7	¹¹⁶ Ag(2.68 m)	513.39(76), 2478.5(12), 699.58(11)
993.5 3	0.08 4	¹⁸¹ Re(19.9 h)	365.57(56), 360.70(20), 639.30(6.4)
993.55 19	0.21 10	¹⁸¹ Re(19.9 h)	365.57(56), 360.70(20), 639.30(6.4)
993.6 3	0.14 3	⁷³ Ga(4.86 h)	297.32(79.8), 325.70(11.17), 739.42(4.23)
993.62 7	0.64 4	⁷⁴ Ga(8.12 m)	595.847(91), 2353.46(44.5), 608.353(14.3)
• 993.62 7	0.0184 18	⁷⁴ As(17.77 d)	595.847(59), 608.353(0.552), 1204.208(0.285)
993.64 8	0.48 5	¹⁶² Tm(21.70 m)	102.00(17.5), 798.68(8.4), 227.52(7)
993.69 14	0.016 4	⁸¹ Rb(4.576 h)	190.38(64.0), 446.15(23.2), 510.31(5.3)
993.69 13	0.30 3	⁹¹ Rb(58.4 s)	93.628(33.7), 2564.19(12.5), 3599.67(10.4)
993.7 4	0.040 4	⁶⁵ Ga(15.2 m)	115.09(54), 61.20(11.4), 153.0(8.9)
993.70 10	0.0054 11	⁷³ Se(7.15 h)	360.80(108), 67.03(78), 865.09(0.584)
993.7 10	†3	⁹⁹ Rb(59 ms)	90.8(†100), 125.2(†40), 1071.6(†26)
993.8 4	3.31 17	⁸⁶ Se(15.3 s)	2441.1(43.0), 2660.0(21.6), 48.3(15.4)
993.8 1	0.30 3	¹⁰⁷ Tc(21.2 s)	102.70(21.0), 177.00(9.2), 106.31(7.6)
• 993.81 21	0.0020 3	¹³⁷ Ce(34.4 h)	824.82(0.44), 169.26(0.44), 762.3(0.192)
993.9 7	2.8 7	¹⁷⁹ Yb(8.0 m)	592.1(75), 612.3(35.4), 381.4(9.6)
• 993.96 13	0.054 16	¹⁶⁹ Lu(34.06 h)	960.622(23.4), 191.2137(20.6), 1449.74(9.92)
994.0 3	3.8 4	⁸⁴ Y(40 m)	793.3(99), 974.6(75), 1040.2(56)
994.0 5	1.6 5	⁹⁸ Y(2.0 s)	1223.0(80), 620.505(63), 647.58(53)
994.0 5	0.0006 3	¹⁷¹ Er(7.516 h)	308.31(64.4), 295.901(28.9), 111.621(20.5)
994 1	0.00094	²³³ Th(22.3 m)	86.477(2.7), 29.374(2.5), 459.222(1.4)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
994.03 6	0.086 4	¹²¹ I(2.12 h)	212.189(84), 532.08(6.07), 598.74(1.47)
994.10 7	0.75 6	¹⁵⁵ Ho(48 m)	240.19(12.5), 136.30(5.00), 45.38(5)
994.17 25	0.19 3	¹⁶³ Yb(11.05 m)	860.28(10.1), 63.62(6.5), 123.21(1.98)
994.18 14	0.057 8	¹⁵⁵ Dy(9.9 h)	226.918(68.4), 184.564(3.37), 1089.8(>2.8)
• 994.20 10	>0.6	⁸³ Sr(32.41 h)	762.65(30), 381.53(14.1), 418.37(4.41)
994.2 3	2.0 4	¹²² Cs(4.5 m)	331.1(94), 497.1(79), 638.5(63)
994.2 2	1.61 9	¹³⁶ I(83.4 s)	1313.02(67), 1321.08(24.8), 2289.6(10.4)
• 994.21 14	>0.6	⁸³ Sr(32.41 h)	762.65(30), 381.53(14.1), 418.37(4.41)
994.3 4	0.017 17	¹¹⁷ Cd(2.49 h)	273.349(28), 1303.27(18.4), 344.459(17.9)
994.3	0.035 9	¹⁴⁹ Tb(4.118 h)	352.24(29.43), 164.98(26.4), 388.57(18.37)
994.3 8	†10.4 19	¹⁹⁵ Pb(15 m)	883.1(†100), 393.7(†42), 871.0(†36)
994.4 2	†0.18 5	¹⁶⁰ Ho(5.02 h)	728.18(†100), 879.383(†65.9), 962.317(†59.1)
994.41 18	0.19 3	²⁰⁸ Rn(24.35 m)	426.78(7.07), 251.05(5.02), 350.026(3.34)
994.46 12	0.05	¹⁷⁶ Ta(8.09 h)	1159.28(25), 88.34(12), 1224.93(6)
994.5 1	†8.63 22	¹⁵⁸ Ho(11.3 m)	218.21(†100.0), 98.91(†70), 945.7(†37)
994.6 6	0.030 4	⁷¹ Zn(3.96 h)	386.28(93), 487.38(62), 620.18(57)
994.60 7	0.294 12	²¹⁰ Rn(2.4 h)	458.25(1.7), 648.70(0.843), 570.95(0.840)
994.6 3	0.062 21	²³⁴ Pa(6.70 h)	131.30(18), 946.00(13.4), 883.24(9.6)
994.61 15	1.59 15	¹⁹³ Hg(11.8 h)	257.97(61), 407.63(25), 573.25(14.2)
994.64 10	0.062 4	¹⁵¹ Nd(12.44 m)	116.80(43.4), 255.68(16.4), 1180.89(14.8)
994.7	0.008	¹³⁵ Ce(17.7 h)	265.56(41.8), 300.07(23.5), 606.76(18.8)
994.7 5	0.42 4	¹³⁷ Pm(2.4 m)	177.5(40.29), 108.6(35), 233.6(29.57)
994.75 25	†11.0 11	¹⁹³ Tl(21.6 m)	324.37(†100), 1044.7(†59), 676.10(†48)
994.8 2	14.0 4	⁶³ Fe(6.1 s)	1427.2(4.6), 1299.0(1.23), 1494.6(1.12)
994.8 4	0.13 4	¹⁰⁵ In(5.07 m)	131.37(41), 260.21(15.7), 604.11(9.2)
994.93 11	0.029 3	¹⁶⁸ Ho(2.99 m)	741.356(36.6), 821.164(34.5), 815.990(18.6)
995.0 6	0.021 8	¹¹¹ Sn(35.3 m)	1152.98(2.7), 1914.70(1.99), 761.97(1.48)
995.0 5	0.05	¹¹⁷ Cd(3.36 h)	1997.33(26), 1065.98(23.1), 564.397(14.7)
995	0.5	¹²⁵ Cs(45 m)	526(24), 111.8(9), 412(5)
995 1	0.00012	²²³ Fr(21.8 m)	50.13(36.0), 79.72(9.1), 234.81(3.0)
• 995 1	†0.00041	²²⁷ Th(18.72 d)	235.971(†813), 50.13(†528), 256.25(†463)
995.08 12	0.80 6	⁹¹ Kr(8.57 s)	108.788(43.5), 506.592(19.1), 612.87(7.7)
995.089 25	0.0551 17	¹⁶⁵ Dy(2.334 h)	94.700(3.58), 361.68(0.84), 633.415(0.568)
995.09 2	0.69 5	¹³³ Te(12.5 m)	312.072(62), 407.63(27.1), 1333.21(10.67)
995.09 2	0.50 17	¹³³ Te(55.4 m)	912.671(55.28), 647.51(19.4), 863.955(15.6)
995.09 10	0.16 3	¹³⁵ I(6.57 h)	1260.409(28.90), 1131.511(22.74), 1678.027(9.62)
• 995.1 3	0.116 20	¹³¹ Te(30 h)	773.67(49.9), 852.21(27.0), 793.75(18.10)
995.13 15	†36 5	¹⁶⁰ Eu(38 s)	173.19(†100), 513.6(†60), 412.56(†56)
995.13	0.15	²⁰³ Bi(11.76 h)	820.3(30), 825.2(14.6), 896.9(13)
995.16 4	0.070 7	¹⁸⁰ Re(2.44 m)	902.795(90), 103.557(22.2), 825.357(9.9)
995.2	0.79 4	⁹⁶ Rh(9.90 m)	832.57(100), 685.49(95.7), 631.71(74.5)
995.3 3	0.103 20	⁹⁵ Rb(377.5 ms)	352.02(49), 204.02(15.1), 680.7(14.8)
995.36 8	3.9 3	⁹⁷ Rh(46.2 m)	189.21(49), 2245.6(14), 421.55(12.7)
995.4 11	0.13 9	¹²⁹ Sb(4.40 h)	812.8(43), 914.6(20.0), 544.7(17.9)
995.4 2	0.26 7	¹⁷³ Ta(3.14 h)	172.2(18), 69.70(5.9), 90.3(5.0)
995.4 5	†0.83 21	¹⁸³ Hg(9.4 s)	60.5(†100), 159.91(†21), 172.70(†17)
995.4	†10	²³⁸ Pa(2.3 m)	1015.3(†<100), 1014.6(†<100), 635.18(†88)
• 995.5	>0.9	¹⁴⁷ Gd(38.06 h)	229.32(63), 396.00(34.3), 929.01(20.2)
995.5 3	0.14 4	¹⁵⁰ Tb(3.48 h)	638.05(72), 496.3(14.8), 792.5(4.39)
995.50 15	1.83 11	¹⁷² Ta(36.8 m)	214.02(46), 95.23(17.5), 1109.27(12.4)
995.54 5	0.0371 6	¹²⁷ Cs(6.25 h)	411.95(62.8), 124.70(11.37), 462.31(5.07)
• 995.58 20	>0.9	¹⁴⁷ Gd(38.06 h)	229.32(63), 396.00(34.3), 929.01(20.2)
• 995.6	>0.6	⁸³ Sr(32.41 h)	762.65(30), 381.53(14.1), 418.37(4.41)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
995.6 4	0.118 22	¹⁹⁹ Pb(90 m)	366.90(44.2), 353.39(9.5), 1135.04(7.8)
995.7 4	†1.7 4	¹⁸⁹ Hg(7.6 m)	320.99(†100), 78.21(†63), 565.42(†48)
995.8 5	0.030 10	¹³² I(2.295 h)	667.718(99), 772.60(75.6), 954.55(17.6)
995.8 5	0.36 8	¹⁴¹ Sm(22.6 m)	196.88(74), 431.6(40.4), 777.6(20.3)
995.8 5	1.25 25	¹⁵¹ Ho(35.2 s)	527.4(63), 775.53(9.2), 209.5(5.69)
995.8 2	0.201 22	¹⁶³ Tm(1.810 h)	104.320(18.6), 69.229(11.6), 241.305(10.9)
995.87 1	0.033 17	¹⁵² Pm(4.1 m)	121.7824(15.7), 841.586(2.17), 961.06(1.92)
995.87 1	0.0700 15	¹⁵² Eu(9.274 h)	841.586(14.6), 963.37(12.01), 121.7824(7.21)
995.9 3	0.061 17	⁶⁶ Ge(2.26 h)	43.89(28.7), 381.85(28), 272.97(10.4)
995.9	0.07 3	¹⁸⁵ Au(4.25 m)	310.6(13), 243.1(6.6), 77.7(6)
995.92 7	0.67 4	¹⁵¹ Dy(17.9 m)	386.10(19.4), 49.46(18.0), 546.31(14.3)
995.93 19	1.31 8	⁸³ Se(22.3 m)	356.687(70), 510.17(43), 224.8(32.7)
995.97 8	0.88 5	¹⁴⁷ Pr(13.4 m)	77.9921(15), 314.675(13.2), 641.380(10.0)
996.0 4	0.26 6	¹¹¹ Pd(5.5 h)	70.44(8.3), 391.25(5.4), 632.80(3.6)
996.0 4	0.45 11	¹⁴⁸ Ho(9.59 s)	1687.5(82.47), 660.8(58.94), 504.3(18.62)
996.0 2	†2.2 2	²⁰³ At(7.4 m)	639.4(†100), 641.5(†55.8), 738.1(†38.4)
996.0 3	0.20 3	²⁴⁵ Pu(10.5 h)	327.428(25.4), 560.13(5.4), 308.222(4.9)
• 996.06 6	0.0098 8	⁷¹ As(65.28 h)	174.954(82.00), 1095.490(4.08), 499.876(3.624)
996.1 3	0.50 5	¹⁰⁴ Ag(33.5 m)	555.796(91), 1238.0(3.87), 2276.7(2.46)
996.1 2	0.74 14	¹⁰⁸ In(58.0 m)	875.46(100), 632.96(100), 242.84(41)
996.1 3	0.4 3	¹³³ Te(55.4 m)	912.671(55.28), 647.51(19.4), 863.955(15.6)
996.1 3	0.37 4	¹⁴¹ Eu(40.0 s)	394.0(9), 384.5(5.6), 382.9(2.97)
996.1 5	0.055 16	²²⁷ Fr(2.47 m)	90.035(39), 585.804(29.5), 64.267(14.5)
996.1 20	†4.1×10 ³	²³⁴ Pa(1.17 m)	1001.03(†837000), 766.38(†294000), 742.81(†80000)
996.19 11	0.297 11	¹³⁹ Xe(39.68 s)	218.59(56), 296.53(21.7), 174.97(11.3)
996.2 1	1.89 15	⁷³ Br(3.4 m)	64.9(37.0), 336.0(10.4), 699.8(9.1)
996.2 3	1.9 4	¹¹² Rh(6.8 s)	348.70(87), 560.5(49), 1098.6(39)
996.2 4	†1.2 2	¹⁸² Au(21 s)	154.76(†100), 264.33(†40.0), 855.41(†14.5)
• 996.262 5	10.6 4	¹⁵⁴ Eu(8.593 y)	123.071(40.79), 1274.436(35.19), 723.304(20.22)
996.262 5	8.6 8	¹⁵⁴ Tb(9.4 h)	123.071(30), 247.925(22.1), 540.18(20)
996.262 5	4.9 5	¹⁵⁴ Tb(21.5 h)	123.071(26), 1274.436(10.5), 2187.10(9.9)
996.262 5	2.39 24	¹⁵⁴ Tb(22.7 h)	247.925(79), 346.643(69), 1419.81(46)
996.3 2	1.6 4	¹¹⁹ Cd(2.20 m)	1025.0(24.8), 2021.3(22.6), 720.7(17.9)
996.3 2	0.29 5	¹⁸³ Au(42.0 s)	161.18(9.4), 214.13(5.9), 313.08(5.0)
996.3 4	0.191 12	¹⁹² Au(4.94 h)	316.50791(58.0), 295.95827(22.3), 2236.89(5.6)
996.31 5	2.07 4	⁹⁸ Nb(51.3 m)	787.374(93), 722.645(73.8), 1168.830(17.8)
996.38 12	0.030 9	¹⁵⁷ Eu(15.18 h)	63.929(23.0), 410.723(17.5), 370.509(11.0)
996.4 5	†3.5	¹⁷⁹ Os(6.5 m)	65.39(†100), 218.6(†17), 32.3(†17)
996.4 8	2.3 6	¹⁹¹ Hg(50.8 m)	252.5(57), 420.1(18.6), 578.6(17.6)
996.41 21	†3.6 5	¹⁴² Xe(1.22 s)	571.83(†100), 657.05(†79), 538.24(†77)
996.5 2	0.54 3	⁸⁵ Y(4.86 h)	231.67(22.8), 2123.8(5.0), 767.40(3.6)
996.5 5	0.160 18	¹¹⁵ Ag(20.0 m)	229.08(18), 212.80(4.4), 472.70(4.0)
996.5 1	0.124 9	¹⁴⁹ Tb(4.118 h)	352.24(29.43), 164.98(26.4), 388.57(18.37)
996.50 20	0.23 3	¹⁶³ Yb(11.05 m)	860.28(10.1), 63.62(6.5), 123.21(1.98)
996.5	†0.39 12	¹⁷⁸ Ir(12 s)	266.1(†100.0), 131.6(†79), 363.1(†39.9)
996.53 10	3.76 20	¹⁰¹ Sr(118 ms)	128.34(18.0), 1124.82(10.9), 510.73(8.5)
996.55 5	0.1051 22	⁷⁷ Ge(11.30 h)	264.44(54), 211.03(30.8), 215.50(28.6)
996.6 3	0.32 4	¹⁸⁴ Au(53.0 s)	162.97(50), 272.98(40), 362.47(17.5)
996.6 4	0.07 3	¹⁸⁵ Au(4.25 m)	310.6(13), 243.1(6.6), 77.7(6)
996.61 15	1.12 13	¹¹⁵ Te(5.8 m)	723.569(30), 1380.58(23.0), 1326.83(22.7)
996.61 17	0.38 5	¹⁷⁴ Ta(1.05 h)	206.50(58), 91.00(16.0), 1205.92(4.9)
996.7 5	1.28 18	¹¹⁰ Sb(23.0 s)	1211.87(92), 985.03(31.2), 1243.6(13.4)
996.7 7	3.9 4	¹¹⁷ Te(62 m)	719.7(65), 1716.4(15.9), 2300.0(11.2)
996.70 7	0.271 16	¹⁵⁵ Dy(9.9 h)	226.918(68.4), 184.564(3.37), 1089.8(>2.8)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
996.7 1	$\dagger 0.7 2$	$^{172}\text{Ir}(2.0 \text{ s})$	227.8($\dagger 100.0$), 378.4($\dagger 62.0$), 448.4($\dagger 40.5$)
996.78 10	4.2 6	$^{125}\text{Cd}(0.65 \text{ s})$	436.29(37), 1099.48(22.3), 2147.19(19.1)
996.8 3	0.39 5	$^{121}\text{Xe}(40.1 \text{ m})$	252.7(13), 132.8(10.9), 445.2(7.7)
996.80 16	0.028 5	$^{130}\text{I}(12.36 \text{ h})$	536.09(99), 668.54(96), 739.48(82)
996.8 3	0.063 16	$^{138}\text{Xe}(14.08 \text{ m})$	258.411(31.5), 434.562(20.3), 1768.26(16.7)
996.8	0.129 23	$^{141}\text{Ba}(18.27 \text{ m})$	190.328(46.0), 304.194(25.4), 276.948(23.4)
996.82	0.0014 2	$^{24}\text{Na}(14.9590 \text{ h})$	1368.633(100), 2754.028(99.944), 3866.19(0.052)
996.82	0.137 7	$^{24}\text{Al}(2.053 \text{ s})$	1368.633(96.0), 7069.50(43.0), 2754.028(41.2)
996.9 3	1.8 3	$^{180}\text{Ir}(1.5 \text{ m})$	276.4(56), 132.2(38.1), 699.0(13.4)
• 997.0 5	0.0059 20	$^{124}\text{Sb}(60.20 \text{ d})$	602.730(97.8), 1690.980(47.3), 722.786(10.76)
• 997.0 5	0.024	$^{124}\text{I}(4.18 \text{ d})$	602.730(60), 1690.980(10.41), 722.786(9.98)
997.0 2	0.46 5	$^{167}\text{Dy}(6.20 \text{ m})$	569.7(48), 259.33(27.9), 310.26(25.0)
997		$^{168}\text{Lu}(6.7 \text{ m})$	198.82(28), 979.22(20), 896.12(15)
997.0 1	$\dagger 3.1 3$	$^{171}\text{Ta}(23.3 \text{ m})$	49.6($\dagger 100$), 506.4($\dagger 54$), 501.8($\dagger 22.6$)
997.1 3	1.6	$^{111}\text{Sb}(75 \text{ s})$	154.48(71), 489.1(42), 1032.6(10.0)
997.1 1	1.2	$^{147}\text{Tb}(1.83 \text{ m})$	1397.0(79), 1797.1(14), 1643.0(1.2)
997.1 4	$\dagger 0.29 3$	$^{184}\text{Ir}(3.09 \text{ h})$	263.97($\dagger 100$), 119.80($\dagger 45$), 390.38($\dagger 38$)
997.1 2	$\dagger 3.1 3$	$^{185}\text{Hg}(21.6 \text{ s})$	222.8($\dagger 100.0$), 258.7($\dagger 98$), 212.5($\dagger 58$)
997.1 3	69	$^{207}\text{Hg}(2.9 \text{ m})$	351.059(77), 1637.1(30), 1756.3(16)
997.2 10	0.07	$^{103}\text{Cd}(7.3 \text{ m})$	1461.81(12), 1448.70(5.55), 1079.90(5.44)
997.2 3	0.16 5	$^{180}\text{Lu}(5.7 \text{ m})$	407.94(43.0), 1199.7(24.3), 1106.00(22.7)
997.2	0.12	$^{185}\text{Ir}(14.4 \text{ h})$	254.4(13.3), 1828.8(10), 60.0(5.7)
997.25 1	3.334 14	$^{131}\text{Te}(25.0 \text{ m})$	149.716(69), 452.323(18.18), 1146.96(4.95)
997.25 11	0.247 24	$^{133}\text{Ce}(4.9 \text{ h})$	477.22(39), 510.36(20.7), 58.39(19.2)
• 997.256 8	0.133 5	$^{110}\text{Ag}(249.79 \text{ d})$	657.7622(94.0), 884.685(72.2), 937.493(34.13)
997.256 8	10.52 20	$^{110}\text{In}(4.9 \text{ h})$	657.7622(98.3), 884.685(92.9), 937.493(68.4)
997.29 23	0.0113 11	$^{151}\text{Tb}(17.609 \text{ h})$	287.357(28.3), 251.863(26.3), 108.088(24.3)
• 997.33 16	0.112 6	$^{56}\text{Co}(77.27 \text{ d})$	846.771(100), 1238.282(67.6), 2598.459(17.28)
997.355 25	0.012 3	$^{155}\text{Sm}(22.3 \text{ m})$	104.3346(74.6), 245.771(3.7), 141.4428(1.98)
997.37 10	0.66 4	$^{89}\text{Kr}(3.15 \text{ m})$	220.948(20.1), 586.03(16.6), 904.27(7.2)
997.37 18	0.070 21	$^{187}\text{Au}(8.4 \text{ m})$	1331.81(7.0), 1408.23(3.06), 914.73(3.02)
997.38 5	18.0 7	$^{166}\text{Lu}(2.65 \text{ m})$	228.12(77.3), 337.50(41), 367.95(31.4)
997.4 5	> 0.39	$^{172}\text{Ta}(36.8 \text{ m})$	214.02(46), 95.23(17.5), 1109.27(12.4)
• 997.42 23	0.028 6	$^{153}\text{Tb}(2.34 \text{ d})$	212.038(31.0), 170.504(6.8), 109.758(6.4)
997.5 2	1.04 16	$^{149}\text{Dy}(4.20 \text{ m})$	100.8(15.2), 789.4(11.8), 1776.3(11.1)
997.5 7	> 0.25	$^{161}\text{Tm}(33 \text{ m})$	45.54(5.00), 1648.1(9.50), 84.40(9.4)
997.55 7	1.23 5	$^{83}\text{Se}(70.1 \text{ s})$	1030.86(21.2), 356.687(18), 987.96(16.1)
997.6 3	0.41 6	$^{88}\text{Nb}(14.5 \text{ m})$	1082.53(103), 1057.01(100), 671.20(64)
997.63 3	$\dagger 5.91 17$	$^{158}\text{Ho}(11.3 \text{ m})$	218.21($\dagger 100.0$), 98.91($\dagger 70$), 945.7($\dagger 37$)
997.66	1.04 5	$^{133}\text{Te}(12.5 \text{ m})$	312.072(62), 407.63(27.1), 1333.21(10.67)
997.67 19	0.087 17	$^{163}\text{Tm}(1.810 \text{ h})$	104.320(18.6), 69.229(11.6), 241.305(10.9)
997.7	$\dagger 100$	$^{130}\text{Ce}(25 \text{ m})$	1072.6($\dagger 100$), 920.5($\dagger 100$), 851.5($\dagger 80$)
997.7 4	0.086 22	$^{150}\text{Tb}(3.48 \text{ h})$	638.05(72), 496.3(14.8), 792.5(4.39)
997.7 5	0.191 12	$^{192}\text{Au}(4.94 \text{ h})$	316.50791(58.0), 295.95827(22.3), 2236.89(5.6)
997.7 3	0.045 10	$^{234}\text{Pa}(6.70 \text{ h})$	131.30(18), 946.00(13.4), 883.24(9.6)
997.79 5	21.1 15	$^{124}\text{In}(3.17 \text{ s})$	1131.64(68), 3214.15(21.5), 1470.70(6.0)
997.85 6	0.319 11	$^{90}\text{Rb}(158 \text{ s})$	831.69(28), 1060.70(6.69), 4365.90(5.6)
997.87 4	48 3	$^{106}\text{In}(6.2 \text{ m})$	632.66(100), 861.16(92), 1009.27(30.3)
997.9 4	1.98 19	$^{127}\text{Sn}(2.10 \text{ h})$	1114.3(39), 1095.6(20), 823.1(10.9)
997.9 4	0.30 5	$^{202}\text{Bi}(1.72 \text{ h})$	960.67(99), 422.18(83.7), 657.49(60.6)
997.93 4	4.26 12	$^{89}\text{Br}(4.40 \text{ s})$	1097.82(6.00), 953.53(4.26), 4166.3(3.8)
997.93 4	0.33 3	$^{90}\text{Br}(1.92 \text{ s})$	411.49(3.88), 962.71(1.25), 1097.82(0.91)
• 997.98 5	0.0268 10	$^{171}\text{Lu}(8.24 \text{ d})$	739.78(47.8), 19.394(13.7), 667.404(11.04)
998.06 10	0.00027 13	$^{179}\text{Lu}(4.59 \text{ h})$	214.335(11.3), 214.930(0.46), 123.3790(0.45)

• $t_{1/2} > 1 \text{ d}$

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
998.12 15	1.4 3	¹²³ Cd(2.10 s)	371.32(51), 1052.28(24.8), 1438.13(8.3)
998.2 3	0.217 19	⁹⁴ Tc(52.0 m)	871.082(94), 1868.68(5.7), 1522.11(4.5)
998.2 1	†2.0 2	¹⁷² Ir(2.0 s)	227.8(†100.0), 378.4(†62.0), 448.4(†40.5)
• 998.291 11	0.0796 18	¹²¹ Te(154 d)	1102.149(2.54), 37.138(0.94), 909.847(0.0703)
998.3 3	0.0043 14	¹⁶⁷ Yb(17.5 m)	113.34(55.3), 106.18(22.5), 176.25(21)
998.3 4	2.6 3	¹⁷⁵ Ta(10.5 h)	207.4(14.0), 348.5(12.0), 266.9(10.8)
998.30 10	0.097 16	¹⁷⁶ Ta(8.09 h)	1159.28(25), 88.34(12), 1224.93(6)
998.36 5	0.32 4	¹⁵⁸ Eu(45.9 m)	944.09(25), 977.131(13.6), 79.5104(11)
998.4 10	0.09 3	¹⁰⁵ Cd(55.5 m)	961.84(4.69), 346.870(4.20), 1302.459(3.98)
998.4 10	0.15 4	¹⁰⁵ Cd(55.5 m)	961.84(4.69), 346.870(4.20), 1302.459(3.98)
998.4 3	0.171 18	¹²⁰ Xe(40 m)	25.1(30), 72.6(9), 178.1(6.8)
998.43	<0.14	¹⁰⁵ Cd(55.5 m)	961.84(4.69), 346.870(4.20), 1302.459(3.98)
998.47 10	2.03 16	¹⁹⁴ Pb(12.0 m)	581.82(18.8), 1519.45(16.4), 203.82(16.2)
998.5 6	0.65 6	¹⁰⁹ In(4.2 h)	203.5(74), 623.7(5.5), 1148.9(4.3)
998.5 7	0.41 4	¹⁹⁹ Bi(27 m)	560.1(22.0), 424.85(22), 841.7(11)
998.52 8	0.041 10	⁵⁹ Cu(81.5 s)	1301.46(14.78), 877.97(11.40), 339.411(7.97)
998.59 10	2.39 18	¹⁹⁷ Pb(43 m)	385.85(74), 387.72(25.1), 222.45(24.6)
998.6 4	0.033 12	⁸¹ Sr(22.3 m)	153.54(33.8), 147.76(30.1), 443.34(17.5)
998.6 3	0.042 10	⁸⁷ Br(55.60 s)	1419.71(22.0), 1476.04(7.9), 1577.60(6.0)
998.6 10	0.125 24	²⁰¹ Bi(108 m)	629.1(24.0), 936.2(11.3), 1014.1(10.7)
• 998.70 15	0.69 7	⁹⁹ Rh(16.1 d)	528.24(33), 353.05(30.0), 89.65(29.0)
• 998.74 27	0.0045 13	¹⁴⁶ Eu(4.59 d)	747.2(98), 633.03(43), 634.07(37)
998.75 12	1.03 8	¹⁰⁷ In(32.4 m)	204.97(47), 505.51(11.9), 320.92(10.2)
998.75 12	0.19 8	¹⁰⁷ In(32.4 m)	204.97(47), 505.51(11.9), 320.92(10.2)
998.8 2	†14.0 15	¹⁵⁹ Yb(1.58 m)	166.16(†500), 177.12(†159), 390.20(†113)
998.8 2	0.037	¹⁶¹ Er(3.21 h)	826.6(3.0), 211.15(12.2), 592.6(3.7)
998.8 2	0.11	¹⁶¹ Er(3.21 h)	826.6(3.0), 211.15(12.2), 592.6(3.7)
999.0 10	0.061 20	¹⁵⁰ Pm(2.68 h)	333.971(68), 1324.51(17.5), 1165.739(15.8)
999.0 3	†0.41 7	¹⁹² Tl(9.6 m)	422.8(†100), 634.8(†75.9), 786.3(†31.7)
999.06 20	†35	¹⁵⁴ Nd(25.9 s)	151.703(†800), 799.55(†600), 180.693(†510)
999.1 1	0.22 4	²³⁰ Ac(122 s)	454.95(8), 508.20(5.15), 1243.9(3.50)
999.2 5	0.61 24	¹⁴⁸ Pr(2.27 m)	301.702(61), 1357.78(5.5), 1023.18(4.8)
999.2 2	1.19 18	²⁰⁷ Rn(9.25 m)	344.53(46), 747.15(14.2), 402.68(11.9)
999.22 4	1.35 11	⁷⁷ Zn(2.08 s)	189.49(28.1), 473.94(19.7), 1832.0(12.4)
999.23 7	0.64 4	²⁰¹ Pb(9.33 h)	331.19(79), 361.27(9.9), 945.96(7.4)
999.26 15	0.028 7	¹³¹ Te(25.0 m)	149.716(69), 452.323(18.18), 1146.96(4.95)
• 999.26 15	0.223 25	¹³¹ Te(30 h)	773.67(49.9), 852.21(27.0), 793.75(18.10)
999.32 10	0.37 6	¹⁵⁸ Tm(3.98 m)	192.13(62), 335.10(16.8), 1149.83(7.6)
999.34 8	0.13	¹⁶⁵ Yb(9.9 m)	80.11(49), 68.86(9.1), 1090.28(4.4)
999.4 1	†7.82 31	¹²⁹ Ba(2.17 h)	182.30(†100), 1459.1(†50.0), 202.38(†33.7)
• 999.4 10	0.012 4	²³⁰ Pa(17.4 d)	951.95(1.65), 918.48(8.2), 454.95(6.27)
999.46 10	0.51	¹⁶⁵ Yb(9.9 m)	80.11(49), 68.86(9.1), 1090.28(4.4)
999.46 21	†3.6 4	¹⁸² Ir(15 m)	273.23(†100), 126.79(†77), 236.3(†21.0)
• 999.46 25	0.071 12	¹⁸⁸ Ir(41.5 h)	155.032(29.7), 2214.62(18.7), 632.99(18)
999.5 3	2.6 4	⁹⁷ Y(1.17 s)	1103.0(92.6), 161.4(71.8), 1091(56)
999.5 3	0.028 12	¹⁵¹ Nd(12.44 m)	116.80(43.4), 255.68(16.4), 1180.89(14.8)
999.54 7	0.015 4	¹⁸³ Os(13.0 h)	381.768(89.6), 114.463(20.63), 167.844(8.81)
999.6 2	0.548 23	¹⁴³ Eu(2.63 m)	1107.3(8), 1536.8(3.29), 1912.7(2.13)
999.6 5	0.058 18	¹⁶⁷ Lu(51.5 m)	29.66(14.4), 239.22(8.6), 213.19(3.6)
• 999.60 10	1.52 4	¹⁷⁰ Lu(2.00 d)	84.2551(4.256), 1280.25(3.450), 2041.88(1.434)
999.6 2	0.155 9	²⁰⁹ At(5.41 h)	545.0(91), 781.9(83.5), 790.2(63.5)
999.68 3	2.44 7	¹⁵⁵ Dy(9.9 h)	226.918(68.4), 184.564(3.37), 1089.8(>2.8)
999.7 2	0.74 15	¹¹⁹ Cd(2.20 m)	1025.0(24.8), 2021.3(22.6), 720.7(17.9)
999.7 3	0.157 17	¹⁴³ Ba(14.33 s)	211.475(25), 798.79(15.6), 980.45(11.55)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
999.70 20	0.131 17	¹⁵³ Dy(6.4 h)	80.723(11.10), 213.754(10.90), 99.659(10.51)
999.7 2	2.3 3	¹⁵⁴ Ho(3.10 m)	334.6(94), 412.4(79), 477.1(55)
999.7 2	3.26 20	¹⁵⁴ Ho(11.76 m)	334.6(84), 412.4(15.0), 873.4(12.5)
999.7 3	0.55 8	¹⁸¹ Au(11.4 s)	198.60(4.4), 2022.4(4.2), 79.40(4.2)
999.7 4	†1.7 4	¹⁸⁹ Hg(7.6 m)	320.99(†100), 78.21(†63), 565.42(†48)
999.8 2	0.66 6	⁷⁵ Zn(10.2 s)	228.67(28.9), 432.29(20.2), 155.94(17.2)
999.8 3	†4.3 11	¹³¹ Sn(56.0 s)	1226.03(†100), 450.03(†90), 798.50(†86)
999.8 2	†3.3 4	¹³¹ Ce(5.0 m)	230.43(†100), 436.85(†7.3), 462.9(†6.9)
999.8 50	0.10 5	¹⁴⁰ Xe(13.60 s)	805.52(20), 1413.66(12.2), 1315.05(8.2)
999.8 6	0.14 5	¹⁴¹ Xe(1.73 s)	909.23(24.0), 118.705(16.1), 105.937(9.8)
999.8 4	0.25 3	¹⁴¹ Eu(40.0 s)	394.0(9), 384.5(5.6), 382.9(2.97)
999.8 3	†14 3	¹⁵⁵ Nd(8.9 s)	180.574(†100), 418.99(†75), 955.08(†50)
999.8 5	0.00021 12	²²³ Fr(21.8 m)	50.13(36.0), 79.72(9.1), 234.81(3.0)
• 999.8 5	†0.0019 7	²²⁷ Th(18.72 d)	235.971(†813), 50.13(†528), 256.25(†463)
999.85 20	0.081 21	¹⁹⁵ Tl(1.16 h)	563.52(10.5), 884.47(10.0), 1363.88(8.4)
999.86 4	0.799 14	⁷² Ga(14.10 h)	834.01(96), 2201.69(25.9), 629.95(24.8)
• 999.86 4	0.025 3	⁷² As(26.0 h)	834.01(80), 629.95(7.92), 1463.95(1.107)
999.9 2	>0.26	⁷⁴ Ga(8.12 m)	595.847(91), 2353.46(44.5), 608.353(14.3)
999.9 3	0.38 8	⁹⁸ Pd(17.7 m)	112.0(58), 662.2(19.7), 106.75(13.9)
999.9 2	0.12	¹⁴⁰ Sm(14.82 m)	225.5(>10), 225.4(10), 140.0(5.0)
999.9 3	†2.2 9	¹⁷¹ Hf(12.1 h)	122.0(†100), 662.2(†83), 347.18(†47)
• 999.96 7	0.42 3	¹⁶⁹ Lu(34.06 h)	960.622(23.4), 191.2137(20.6), 1449.74(9.92)
1000.0 2	0.88 13	¹²¹ Cd(8.3 s)	2059.41(21.0), 1020.89(18.9), 987.81(13.6)
1000.0 5		¹³⁴ Pr(11 m)	293.5(†100), 299.0(†100), 1196.8(†100)
1000.0 5		¹³⁴ Pr(17 m)	1964.1(†100), 1904.3(†100), 1579.9(†100)
1000	4.1	¹³⁴ Nd(8.5 m)	163.2(58), 288.9(13), 216.8(12)
1000.0 3	0.535 20	¹⁷⁷ W(135 m)	115.65(50), 426.98(13.2), 1036.4(10.3)
1000.00 12	3.3 7	¹⁸¹ Re(19.9 h)	365.57(56), 360.70(20), 639.30(6.4)
1000.12 4	0.0465 17	¹⁹⁴ Ir(19.15 h)	328.455(13.1), 293.545(2.55), 645.157(1.17)
• 1000.12 4	0.180 18	¹⁹⁴ Au(38.02 h)	328.455(60), 293.545(10.2), 1468.91(6.3)
1000.2 2	†0.46 4	⁷¹ Se(4.74 m)	147.50(†211), 1095.26(†43.6), 830.33(†43.2)
1000.2 6	9.7 6	¹⁰⁴ In(1.8 m)	658.0(100), 834.1(99), 878.1(29.4)
1000.2 4	2.3 5	¹³⁰ Sb(39.5 m)	793.53(100), 839.49(100), 331.05(78)
1000.2 3	0.086 24	¹³³ Ce(4.9 h)	477.22(39), 510.36(20.7), 58.39(19.2)
1000.2 1	1.57 22	¹⁴² Gd(70.2 s)	750.2(11.2), 178.90(11.20), 284.4(6.16)
1000.2 8	†2.0 9	¹⁶⁰ Tm(9.4 m)	125.8(†100), 728.5(†37), 264.1(†27)
1000.2 5		¹⁹² Au(4.94 h)	316.50791(58.0), 295.95827(22.3), 2236.89(5.6)
1000.3 5	0.056 7	¹¹⁵ Ag(20.0 m)	229.08(18), 212.80(4.4), 472.70(4.0)
1000.3 5	1.0	²⁰³ Bi(11.76 h)	820.3(30), 825.2(14.6), 896.9(13)
1000.4 3	0.15 4	¹⁵¹ Dy(17.9 m)	386.10(19.4), 49.46(18.0), 546.31(14.3)
1000.47 14	0.23 4	¹⁸³ Au(42.0 s)	161.18(9.4), 214.13(5.9), 313.08(5.0)
1000.5 3	0.046 10	⁹³ Kr(1.286 s)	253.42(41.2), 323.89(24.1), 266.83(20.6)
1000.5 4	0.065 10	¹⁴³ Ba(14.33 s)	211.475(25), 798.79(15.6), 980.45(11.55)
1000.5 6	0.5 4	¹⁸¹ Os(105 m)	238.75(44), 826.77(20), 118.03(12.9)
1000.5 3	†18.0 38	²³³ Pu(20.9 m)	235.4(†100), 534.8(†90.2), 500.3(†38.6)
1000.5 5	0.020 8	²⁴⁹ Es(102.2 m)	379.5(40.4), 813.2(9.2), 375.1(3.3)
1000.6 4	0.038 10	¹⁴⁴ Eu(10.2 s)	1659.8(10), 817.7(1.56), 2423.3(0.96)
1000.6 3	0.19 5	²³⁷ Am(73.0 m)	280.23(47.3), 438.4(8.3), 473.5(4.3)
1000.69 15	>0.005	²²⁸ Ac(6.15 h)	911.205(26.6), 968.971(16.2), 338.322(11.3)
1000.7 2	5.0 3	¹³⁶ Pr(13.1 m)	552.16(76), 539.75(52), 1092.3(18.5)
1000.7 5	0.14 4	¹⁴⁰ Cs(63.7 s)	602.345(71.1), 908.25(11.6), 1200.25(6.39)
1000.72 1	3.62 6	¹³³ Te(12.5 m)	312.072(62), 407.63(27.1), 1333.21(10.67)
1000.8 5	0.24 8	¹²⁶ Ba(100 m)	233.6(19.6), 257.6(7.6), 241.0(6.0)
1000.8 2	†1.91 21	¹⁸⁵ Hg(21.6 s)	222.8(†100.0), 258.7(†98), 212.5(†58)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
1000.92 18	1.38 11	¹⁹⁵ Pb(15.0 m)	383.64(106.9), 394.21(44), 878.40(24.2)
1000.93 12	0.0044 14	¹⁸⁷ W(23.72 h)	685.774(27.3), 479.531(21.8), 72.001(11.14)
1001.0 11	4.5 13	⁵³ Ti(32.7 s)	127.6(46), 228.4(40), 1675.5(25)
1001 1	0.005 3	¹²⁸ Cs(3.66 m)	442.901(26.8), 526.557(2.41), 1140.079(1.168)
1001.0 3	†10 5	¹³⁶ Eu(3.3 s)	254.9(†100), 431.4(†34), 458.0(†20)
1001.0 3	0.108 22	¹⁵⁰ Tb(3.48 h)	638.05(72), 496.3(14.8), 792.5(4.39)
1001 1	0.0012	²³³ Th(22.3 m)	86.477(2.7), 29.374(2.5), 459.222(1.4)
1001.0 10	0.025 17	²⁴⁵ Pu(10.5 h)	327.428(25.4), 560.13(5.4), 308.222(4.9)
1001.03 3	837000 10	²³⁴ Pa(1.17 m)	766.38(†294000), 742.81(†80000), 258.23(†72800)
• 1001.03 3	1.59 7	²³⁴ Np(4.4 d)	1558.31(18.72), 1527.21(11.2), 1601.80(9.1)
• 1001.03 3	9.9×10 ⁻⁷ 7	²³⁸ Pu(87.74 y)	43.498(0.0395), 99.853(0.00735), 152.720(0.000937)
• 1001.1 3	0.0040 19	¹⁵² Eu(13.542 y)	121.7824(28.4), 1408.011(20.87), 964.131(14.34)
1001.1 5	0.064 8	²²⁴ Fr(3.30 m)	215.985(33.1), 131.613(16.3), 836.90(9.8)
1001.2 6	0.082 19	⁸³ Y(7.08 m)	35.50(0.44), 882.1(6.30), 489.90(5.53)
1001.2 5	0.10 4	¹¹¹ Pd(5.5 h)	70.44(8.3), 391.25(5.4), 632.80(3.6)
1001.2 5	>0.26	¹³⁷ Nd(38.5 m)	75.5(17.0), 580.6(13), 306.60(10.0)
1001.2 1	9.72 25	¹⁴² Ba(10.6 m)	255.300(20.5), 1204.3(14.23), 895.2(13.9)
1001.2 3	†12 3	¹⁵⁵ Nd(8.9 s)	180.574(†100), 418.99(†75), 955.08(†50)
1001.21 7	28.8 15	²⁰⁵ Po(1.66 h)	872.39(37), 849.83(25.5), 836.79(19.2)
1001.3 3	†29 5	¹⁰⁷ Sn(2.90 m)	1129.2(†100), 678.5(†100), 1540.6(†30)
1001.3 1	†2.7 3	¹⁷¹ Ta(23.3 m)	49.6(†100), 506.4(†54), 501.8(†22.6)
1001.311 230.0114 12		¹⁷³ Hf(23.6 h)	123.672(83), 296.974(33.9), 139.634(12.7)
• 1001.343 180.00400 12		⁹⁹ Mo(65.94 h)	739.50(12.1), 181.063(6.08), 140.511(4.52)
1001.4 1	2.07 20	⁸⁴ Y(40 m)	793.3(99), 974.6(75), 1040.2(56)
1001.4 3	0.95 10	¹⁸⁴ Au(53.0 s)	162.97(50), 272.98(40), 362.47(17.5)
1001.5 5	0.09	²⁰⁷ At(1.80 h)	814.41(44.5), 588.33(19.2), 300.654(12.8)
• 1001.54 4	0.006 4	²⁰⁵ Bi(15.31 d)	1764.36(1.368), 703.44(31), 987.62(0.585)
1001.58 3	50.7 18	¹²² In(10.3 s)	1140.55(98), 1190.58(20.5), 1163.61(15.4)
1001.58 3	98.4 14	¹²² In(10.8 s)	1140.55(100), 103.74(81), 163.48(66)
1001.6 1	0.114 9	¹³⁷ Pr(1.28 h)	836.7(1.8), 433.9(1.28), 514.0(1.08)
1001.6	7	¹⁴⁴ Tb(4.25 s)	743.0(12), 959.36(4.7), 558.0(4.6)
1001.6 5	0.18 3	²²⁸ Fr(39 s)	473.7(10.2), 474.0(7.6), 410.40(6.3)
• 1001.6951 62.066 14		¹⁸² Ta(114.43 d)	67.75001(41.2), 1121.3007(34.9), 1221.4066(26.98)
1001.6951 60.22		¹⁸² Re(12.7 h)	67.75001(38.2), 1121.3007(32), 1221.4066(24.8)
• 1001.6951 62.46 9		¹⁸² Re(64.0 h)	229.3220(26), 67.75001(22.2), 1121.3007(22.0)
1001.7 4	0.062 6	¹³⁹ Xe(39.68 s)	218.59(56), 296.53(21.7), 174.97(11.3)
1001.7	>0.026	¹⁴⁹ Tb(4.118 h)	352.24(29.43), 164.98(26.4), 388.57(18.37)
1001.71 5	0.040 8	¹¹⁰ In(69.1 m)	657.7622(98), 2129.53(2.13), 2211.49(1.76)
1001.71 18	†0.31 3	¹⁸⁴ Ir(3.09 h)	263.97(†100), 119.80(†45), 390.38(†38)
1001.8 3	0.062 17	⁹⁴ Y(18.7 m)	918.74(56), 1138.88(6.0), 550.88(4.9)
1001.80 15	0.18 4	¹⁶² Tm(21.70 m)	102.00(17.5), 798.68(8.4), 227.52(7)
• 1001.85	1.2	⁴⁴ Sc(58.6 h)	1126.08(1.2), 1157.031(1.2)
1001.87 11	0.031 3	¹⁵¹ Tb(17.609 h)	287.357(28.3), 251.863(26.3), 108.088(24.3)
1001.9 2	0.0043 11	⁷³ Se(7.15 h)	360.80(108), 67.03(78), 865.09(0.584)
1001.9 3	0.29 3	¹⁵⁶ Ho(56 m)	266.35(54.7), 137.83(51), 366.25(10.73)
• 1001.92 4	0.025 4	²⁰⁵ Bi(15.31 d)	1764.36(1.368), 703.44(31), 987.62(0.585)
1002.0 10	0.12 3	⁷⁶ Kr(14.8 h)	315.7(39), 270.2(21.1), 45.48(19.5)
1002		⁹⁰ Ru(13 s)	992
1002.0 10	0.089 22	⁹⁹ Rh(4.7 h)	340.71(70), 617.8(12.0), 1261.2(11)
1002.0 3	0.09 3	¹⁴⁶ Ba(2.22 s)	140.7(20.2), 251.2(19.6), 121.2(14.2)
1002 1		¹⁶⁴ Tb(3.0 m)	168.838(25.4), 754.80(23.3), 215.07(21)
1002.0 5		¹⁹² Au(4.94 h)	316.50791(58.0), 295.95827(22.3), 2236.89(5.6)
1002.02 20	0.38 3	¹⁵³ Dy(6.4 h)	80.723(11.10), 213.754(10.90), 99.659(10.51)
1002.10 20	0.64 6	¹²¹ Ag(0.78 s)	314.55(32.1), 353.43(19.9), 500.61(9.3)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
1002.1	0.283 18	¹⁴⁹ Tb(4.118 h)	352.24(29.43), 164.98(26.4), 388.57(18.37)
1002.13 24	0.21 3	⁹⁵ Y(10.3 m)	954.00(16), 2175.6(7.00), 3576.0(6.4)
1002.19 20	19	¹⁹⁹ Po(4.13 m)	1034.3(16), 362.01(7), 499.61(4.3)
1002.2 3	†2.2 6	¹⁷¹ Hf(12.1 h)	122.0(†100), 662.2(†83), 347.18(†47)
1002.2 5	1.22 11	²²⁶ Fr(48 s)	253.73(22.3), 186.05(16.3), 253.9(2.5)
1002.2 3	1.49 15	²³⁰ Fr(19.1 s)	711.0(13.6), 129.1(11.0), 728.4(7.3)
1002.23 22	0.0087 7	¹⁵⁹ Ho(33.05 m)	121.012(36.2), 131.973(23.6), 309.594(17.2)
1002.3 3	0.061 11	¹¹¹ Pd(23.4 m)	580.00(0.8), 70.44(0.78), 1459.0(0.56)
• 1002.3	0.134 13	¹⁷⁰ Lu(2.00 d)	84.2551(4.256), 1280.25(3.450), 2041.88(1.434)
1002.38 6	0.0657 14	⁷³ Se(39.8 m)	67.03(2.59), 253.70(2.356), 84.0(2.03)
1002.38 5	0.0168 22	¹⁵⁵ Sm(22.3 m)	104.3346(74.6), 245.771(3.7), 141.4428(1.98)
1002.4	1.4 2	²⁶ Na(1.072 s)	1808.63(99.0), 1129.65(5.3), 2541.2(2.5)
1002.4 5	1.5 4	¹⁹¹ Hg(50.8 m)	252.5(57), 420.1(18.6), 578.6(17.6)
1002.444 180.044 4		¹⁸³ Os(13.0 h)	381.768(89.6), 114.463(20.63), 167.844(8.81)
1002.48 9	†0.48 3	¹⁴⁸ Tb(60 m)	784.430(†119.0), 489.049(†28.0), 1079.025(†16.2)
1002.5 5	0.22 11	¹⁰⁹ Ru(34.5 s)	206.29(22.0), 225.98(19.6), 1929.05(13.7)
1002.5 6	0.026 7	¹³² I(2.295 h)	667.718(99), 772.60(75.6), 954.55(17.6)
1002.50 20	0.141 17	¹⁵³ Dy(6.4 h)	80.723(11.10), 213.754(10.90), 99.659(10.51)
1002.5 7	0.36 4	²⁰⁸ At(1.63 h)	686.527(98), 660.040(89), 177.595(48.6)
1002.6 2	0.69 10	¹¹⁹ Ag(2.1 s)	626.4(13), 366.2(12.1), 399.1(10.9)
1002.6 4	1.78 19	¹²⁷ Sn(2.10 h)	1114.3(39), 1095.6(20), 823.1(10.9)
1002.6 5	†6.3 13	¹⁵² Pr(3.24 s)	164.2(†100), 284.9(†81.0), 72.40(†38.9)
1002.6 3	1.0 5	¹⁵² Ho(49.5 s)	647.2(92), 613.8(88.4), 683.3(88)
1002.62 11	0.070 11	¹⁷⁶ Ta(8.09 h)	1159.28(25), 88.34(12), 1224.93(6)
1002.68 15	0.252 20	¹⁶³ Yb(11.05 m)	860.28(10.1), 63.62(6.5), 123.21(1.98)
1002.71 7	0.051 10	¹⁸⁹ Pt(10.87 h)	721.41(9.3), 94.33(7.6), 568.84(7.1)
• 1002.74 2	0.25 13	¹⁷² Lu(6.70 d)	1093.657(62.5), 900.724(29.8), 181.528(20.6)
• 1002.75 2	0.022 3	¹⁷² Tm(63.6 h)	78.7435(6.5), 1093.657(6.0), 1387.093(5.6)
• 1002.75 2	5.25 13	¹⁷² Lu(6.70 d)	1093.657(62.5), 900.724(29.8), 181.528(20.6)
• 1002.77 10	0.0105 20	¹⁴⁵ Eu(5.93 d)	893.73(66), 653.512(15.0), 1658.53(14.9)
1002.8 4	0.18 3	⁹⁹ Nb(2.6 m)	97.785(7), 253.50(3.64), 2641.3(3.64)
1002.8 10	0.08	¹⁵⁴ Pm(1.73 m)	2057.76(17.1), 1393.9(14.4), 81.99(12.6)
• 1002.8 1	0.00103 9	¹⁷⁷ Ta(56.56 h)	112.9498(7.2), 208.3664(0.94), 1057.8(0.29)
• 1002.85 1	0.0753 17	¹⁴³ Ce(33.039 h)	293.266(42.80), 57.356(11.7), 664.571(5.69)
• 1002.88 4	1.035 6	¹⁶⁰ Tb(72.3 d)	879.383(30.01), 298.580(25.51), 966.171(25.21)
1002.88 4	†0.64 9	¹⁶⁰ Ho(5.02 h)	728.18(†100), 879.383(†65.9), 962.317(†59.1)
1002.9 2	0.09 4	⁹⁸ Nb(51.3 m)	787.374(93), 722.645(73.8), 1168.830(17.8)
1002.9 5	0.26 3	¹⁰⁷ In(32.4 m)	204.97(47), 505.51(11.9), 320.92(10.2)
1002.9 7	0.032 8	¹²⁴ Cs(30.8 s)	353.9(40), 914.8(4.0), 492.6(3.6)
1002.9 1	5.0 11	¹²⁹ Sn(6.9 m)	1161.31(56.0), 1128.44(50), 760.8(16.8)
1002.9 3	55 20	¹⁴⁸ Tm(0.7 s)	646.6(100), 877.4(72), 257.5(52)
1002.9 2	5.62 8	¹⁷⁴ Re(2.40 m)	243.4(37), 113.0(19.8), 349.5(4.8)
1002.9 3	0.084 14	¹⁸⁷ Au(8.4 m)	1331.81(7.0), 1408.23(3.06), 914.73(3.02)
• 1002.93 5	0.009 3	²⁰⁵ Bi(15.31 d)	1764.36(1.368), 703.44(31), 987.62(0.585)
• 1003.0 10	8.0×10^{-6} 8	²³³ U(1.592×10^5 y)	42.44(0.0862), 97.134(0.020), 54.699(0.0182)
1003.03 10	0.163 14	¹⁵⁵ Dy(9.9 h)	226.918(68.4), 184.564(3.37), 1089.8(>2.8)
1003.04 11	0.25 5	¹⁰⁰ Sr(202 ms)	963.85(22.0), 898.50(18.9), 65.46(15.2)
1003.1 7	0.192 21	¹⁹⁰ Au(42.8 m)	295.78(71.0), 301.82(23.4), 597.67(9.4)
1003.2 4	0.69 8	¹⁶¹ Tm(33 m)	45.54(5.00), 1648.1(9.50), 84.40(9.4)
• 1003.20 10	0.314 11	¹⁷⁰ Lu(2.00 d)	84.2551(4.256), 1280.25(3.450), 2041.88(1.434)
1003.24 5	37.4 9	⁸⁶ Nb(88 s)	751.74(97.8), 914.81(78.1), 670.01(14.9)
1003.24 13	0.070 10	¹⁵¹ Nd(12.44 m)	116.80(43.4), 255.68(16.4), 1180.89(14.8)
• 1003.28 4	0.158 8	²³² Pa(1.31 d)	969.315(41.6), 894.351(19.8), 150.059(10.8)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
1003.3 4	0.047 17	¹⁴³ Ba(14.33 s)	211.475(25), 798.79(15.6), 980.45(11.55)
1003.3 2	0.82 10	²⁰⁰ Po(11.5 m)	671.0(34.0), 617.7(19.7), 434.4(9.3)
1003.38 4	0.51 4	²⁰⁴ Po(3.53 h)	883.984(29.9), 270.068(27.8), 1016.31(24.1)
1003.42 11	†1.18 4	⁷¹ Se(4.74 m)	147.50(†211), 1095.26(†43.6), 830.33(†43.2)
1003.45 25	0.56 16	²⁰⁴ At(9.2 m)	684.341(95), 516.318(90), 426.253(67.5)
1003.57 3	0.053 6	²¹³ Bi(45.59 m)	440.46(26.1), 292.80(0.429), 807.36(0.292)
1003.6 1	7.86 24	¹³⁰ La(8.7 m)	357.4(81.0), 550.7(25.9), 908.0(17.0)
• 1003.6 2	0.035 20	¹³¹ Te(30 h)	773.67(49.9), 852.21(27.0), 793.75(18.10)
1003.6		²³⁸ Pa(2.3 m)	1015.3(†<100), 1014.6(†<100), 635.18(†88)
• 1003.65 9	0.00070 14	¹²⁹ Te(33.6 d)	695.88(2.988), 729.57(0.70), 556.65(0.118)
1003.690 230	0.0116 22	¹⁷⁹ Lu(4.59 h)	214.335(11.3), 214.930(0.46), 123.3790(0.45)
1003.7 2	1.96 20	⁹⁵ Rb(377.5 ms)	352.02(49), 204.02(15.1), 680.7(14.8)
1003.7 2	†50	⁹⁶ Rb(0.199 s)	352.02(†700), 204.02(†200), 680.7(†121)
1003.7 5	†0.63 21	¹⁸³ Hg(9.4 s)	60.5(†100), 159.91(†21), 172.70(†17)
1003.7 5	†2.1 5	¹⁸⁹ Hg(7.6 m)	320.99(†100), 78.21(†63), 565.42(†48)
1003.8 2	0.142 14	¹⁴⁶ Ba(2.22 s)	140.7(20.2), 251.2(19.6), 121.2(14.2)
1003.8 3	0.086 14	¹⁵⁰ Tb(3.48 h)	638.05(72), 496.3(14.8), 792.5(4.39)
1003.83 12	1.62 18	¹⁹⁷ Pb(8 m)	385.85(50), 761.14(13.3), 375.48(12.8)
1003.9 9	0.06 3	⁹⁰ Rb(258 s)	831.69(94), 1375.36(16.7), 3317.00(14.4)
1003.9 9	0.008 4	⁹⁰ Rb(158 s)	831.69(28), 1060.70(6.69), 4365.90(5.6)
1003.97 6	0.51 3	¹¹⁹ I(19.1 m)	257.52(87), 635.86(2.69), 320.53(2.17)
1004.00 20	2.4 5	¹⁰² Nb(4.3 s)	296.611(79), 1633.10(41), 551.54(30)
1004.0 3	0.7 3	¹⁰⁵ Tc(7.6 m)	143.26(16), 107.945(14.1), 321.50(11.1)
1004.00 8	0.40 8	¹⁵⁸ Eu(45.9 m)	944.09(25), 977.131(13.6), 79.5104(11)
1004	>0.0050	²⁰⁸ Tl(3.053 m)	2614.533(99), 583.191(84.5), 510.77(22.6)
1004.0 3	†31.0 32	²³³ Pu(20.9 m)	235.4(†100), 534.8(†90.2), 500.3(†38.6)
1004.1 4	0.27 13	¹⁵³ Ho(2.0 m)	295.8(67), 637.0(5.36), 688.5(3.7)
1004.2 3	0.073 10	¹²³ Xe(2.08 h)	148.9(49), 178.1(14.9), 330.2(8.6)
1004.3 3	0.0086 12	¹²² I(3.63 m)	564.119(18), 692.794(1.325), 793.278(1.297)
1004.3 3	0.074 25	¹²⁹ La(11.6 m)	278.6(25), 110.5(16.9), 457.0(8.0)
• 1004.3 4	0.010 3	¹⁴⁶ Eu(4.59 d)	747.2(98), 633.03(43), 634.07(37)
1004.3 7	0.264 22	¹⁹⁹ Bi(27 m)	560.1(22.0), 424.85(22), 841.7(11)
1004.3 3	1.23 12	²³⁰ Fr(19.1 s)	711.0(13.6), 129.1(11.0), 728.4(7.3)
1004.31 10	0.09 4	⁹⁸ Nb(51.3 m)	787.374(93), 722.645(73.8), 1168.830(17.8)
1004.4 1	0.00019 6	¹²⁷ Cs(6.25 h)	411.95(62.8), 124.70(11.37), 462.31(5.07)
1004.4 6	0.58 19	¹⁷⁸ Re(13.2 m)	237.3(45), 105.9(23.0), 939.1(8.9)
1004.4 5	†0.12 2	¹⁸⁸ Au(8.84 m)	265.63(†100), 340.04(†23.9), 605.5(†16.3)
1004.41 17	0.36 4	¹⁰⁵ In(5.07 m)	131.37(41), 260.21(15.7), 604.11(9.2)
1004.44 12	0.80 5	¹⁵⁰ Pm(2.68 h)	333.971(68), 1324.51(17.5), 1165.739(15.8)
1004.47 5	0.85 13	²⁰² Bi(1.72 h)	960.67(99), 422.18(83.7), 657.49(60.6)
1004.49 10	0.353 24	¹³³ Ce(4.9 h)	477.22(39), 510.36(20.7), 58.39(19.2)
• 1004.49 20	0.022 3	¹³⁷ Ce(34.4 h)	824.82(0.44), 169.26(0.44), 762.3(0.192)
1004.5 10	0.092 17	⁸⁹ Nb(1.9 h)	1627.20(3.4), 1833.46(3.16), 3092.7(3.0)
1004.51 15	0.0062 13	¹¹⁷ In(116.2 m)	158.562(16), 861.35(0.019), 1020.6(0.0068)
1004.51 15	0.21 3	¹¹⁷ Sb(2.80 h)	158.562(86), 861.35(0.31), 1021.0(0.112)
1004.54 10	0.152 21	¹⁹⁵ Tl(1.16 h)	563.52(10.5), 884.47(10.0), 1363.88(8.4)
1004.56 6	0.24 4	²⁰⁷ At(1.80 h)	814.41(44.5), 588.33(19.2), 300.654(12.8)
1004.6 3	12.0 5	⁷² Cu(6.6 s)	652.4(68), 1657.7(10.1), 846.5(7.8)
1004.6 5	0.16 6	¹⁰⁹ In(4.2 h)	203.5(74), 623.7(5.5), 1148.9(4.3)
1004.6 5	0.15 5	¹⁹³ Hg(11.8 h)	257.97(61), 407.63(25), 573.25(14.2)
• 1004.67 5	0.039 9	¹⁶⁰ Tb(72.3 d)	879.383(30.01), 298.580(25.51), 966.171(25.21)
1004.67 5	†6.2 5	¹⁶⁰ Ho(5.02 h)	728.18(†100), 879.383(†65.9), 962.317(†59.1)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
1004.67 5	2.90 21	¹⁶⁰ Ho(25.6 m)	728.18(46.9), 879.383(26.6), 962.317(25.6)
1004.7 3	0.37 5	¹⁷⁷ W(135 m)	115.65(50), 426.98(13.2), 1036.4(10.3)
• 1004.725 6	18.01 5	¹⁵⁴ Eu(8.593 y)	123.071(40.79), 1274.436(35.19), 723.304(20.22)
1004.725 6	10.9 8	¹⁵⁴ Tb(9.4 h)	123.071(30), 247.925(22.1), 540.18(20)
1004.725 6	0.80 18	¹⁵⁴ Tb(21.5 h)	123.071(26), 1274.436(10.5), 2187.10(9.9)
1004.725 6	7.1 5	¹⁵⁴ Tb(22.7 h)	247.925(79), 346.643(69), 1419.81(46)
1004.73 20	0.32 4	⁷⁸ As(90.7 m)	613.725(54), 694.916(16.7), 1308.59(13.0)
1004.79 4	0.71 3	⁸⁰ Ga(1.697 s)	659.14(78.0), 1083.47(48.4), 1109.36(18.6)
1004.91 5	0.041 8	¹¹⁴ Ag(4.6 s)	558.454(20.40), 576.08(1.77), 1301.234(1.31)
1004.99 20	0.0053 15	¹⁶⁶ Tm(7.70 h)	778.817(18.9), 2052.36(17.2), 184.410(16.1)
1005.0 5	0.071 16	²²⁷ Fr(2.47 m)	90.035(39), 585.804(29.5), 64.267(14.5)
1005.0 5	0.54 11	²²⁸ Fr(39 s)	473.7(10.2), 474.0(7.6), 410.40(6.3)
1005.01 9	0.19 3	¹⁶³ Tm(1.810 h)	104.320(18.6), 69.229(11.6), 241.305(10.9)
1005.02	0.029	⁴⁴ K(22.13 m)	1157.031(58), 2150.76(22.7), 2518.95(9.69)
• 1005.03 5	0.0330 10	¹⁷¹ Lu(8.24 d)	739.78(47.8), 19.394(13.7), 667.404(11.04)
• 1005.1 2	0.0219 21	⁸³ Sr(32.41 h)	762.65(30), 381.53(14.1), 418.37(4.41)
1005.1 2	†4.01 21	⁹⁵ Pd(13.3 s)	1350.9(†105), 716.6(†70.63), 381.8(†50.8)
1005.1 3	0.27 10	²⁴⁵ Pu(10.5 h)	327.428(25.4), 560.13(5.4), 308.222(4.9)
1005.13 8	1.34 7	¹⁹⁹ Pb(90 m)	366.90(44.2), 353.39(9.5), 1135.04(7.8)
• 1005.193 160.924 18		⁷⁷ Br(57.036 h)	238.996(23), 520.639(22.4), 297.215(4.16)
1005.2 5	0.036 5	¹¹⁵ Ag(20.0 m)	229.08(18), 212.80(4.4), 472.70(4.0)
1005.2 3	0.29 8	¹²¹ Cs(122 s)	179.4(30.2), 196.0(24.1), 459.7(12.0)
1005.279 172.90 17		¹⁵² Pm(7.52 m)	244.6989(78), 121.7824(45), 340.48(31.3)
• 1005.279 170.647 15		¹⁵² Eu(13.542 y)	121.7824(28.4), 1408.011(20.87), 964.131(14.34)
1005.4 9	0.16 5	¹⁰¹ Sr(118 ms)	128.34(18.0), 1124.82(10.9), 510.73(8.5)
1005.4 6	0.016 5	¹³² I(2.295 h)	667.718(99), 772.60(75.6), 954.55(17.6)
1005.4 4	0.59 11	¹⁹⁰ Au(42.8 m)	295.78(71.0), 301.82(23.4), 597.67(9.4)
1005.5 5	0.054 7	²²⁴ Fr(3.30 m)	215.985(33.1), 131.613(16.3), 836.90(9.8)
1005.6 3	1.42 19	⁷⁶ Rb(39.1 s)	2571.3(47), 424.0(43.4), 355.6(8.2)
1005.6 4	0.26 4	¹⁰³ Cd(7.3 m)	1461.81(12), 1448.70(5.55), 1079.90(5.44)
1005.6 2	†5	¹³⁹ I(2.29 s)	527.7(†100), 571.2(†98), 536.6(†67)
1005.65 9	0.164 12	⁹³ Kr(1.286 s)	253.42(41.2), 323.89(24.1), 266.83(20.6)
1005.7 3	1.2 3	⁸¹ Ge(7.6 s)	93.10(26), 335.98(12.8), 197.30(12.3)
1005.7 7	0.46 12	⁸⁴ Br(31.80 m)	881.610(42), 1897.761(14.7), 3927.5(6.8)
1005.76 15	0.014 7	¹³¹ Te(25.0 m)	149.716(69), 452.323(18.18), 1146.96(4.95)
• 1005.76 15	0.096 20	¹³¹ Te(30 h)	773.67(49.9), 852.21(27.0), 793.75(18.10)
1005.78 9	1.02 13	¹⁵⁸ Eu(45.9 m)	944.09(25), 977.131(13.6), 79.5104(11)
• 1005.8 2	1.8×10^{-8} 3	²³⁹ Pu(24110 y)	51.624(0.007100), 38.661(0.000500), 129.297(0.00631)
• 1005.894 200.0027 3		¹⁹⁶ Au(6.183 d)	355.684(87), 332.983(22.9), 521.175(0.389)
1005.93 26	0.15 8	⁹⁴ Tc(52.0 m)	871.082(94), 1868.68(5.7), 1522.11(4.5)
1005.981 230.0206 15		¹⁷³ Hf(23.6 h)	123.672(83), 296.974(33.9), 139.634(12.7)
1006.0 4	0.029 8	¹¹¹ Sn(35.3 m)	1152.98(2.7), 1914.70(1.99), 761.97(1.48)
1006.0 1	1.45 13	¹²⁸ La(5.0 m)	284.00(87), 479.24(54), 643.65(14.7)
1006.0 10	0.31 6	²⁰¹ Bi(108 m)	629.1(24.0), 936.2(11.3), 1014.1(10.7)
1006.1 5	0.16 4	¹²¹ Xe(40.1 m)	252.7(13), 132.8(10.9), 445.2(7.7)
1006.11 10	0.414 20	¹⁶³ Yb(11.05 m)	860.28(10.1), 63.62(6.5), 123.21(1.98)
1006.14 6	90	⁵³ V(1.61 m)	1289.59(10), 283.14(0.8), 442.7(0.39)
1006.20 19	8.7 6	⁷⁸ Zn(1.47 s)	224.75(43.9), 181.68(28.1), 860.30(24.5)
1006.2 4	3.21 25	¹³⁹ Nd(5.50 h)	113.94(40), 737.96(35), 982.2(26.4)
1006.2 5	0.16 5	¹⁴⁴ La(40.8 s)	397.440(94.3), 541.20(39.2), 844.8(22.3)
1006.2 6	0.99 10	¹⁷⁶ Tm(1.9 m)	189.57(44.5), 1069.3(34), 381.8(21.8)
1006.21 13	0.07 3	¹⁷⁴ Ta(1.05 h)	206.50(58), 91.00(16.0), 1205.92(4.9)
1006.25 9	0.075 14	¹⁰⁵ Cd(55.5 m)	961.84(4.69), 346.870(4.20), 1302.459(3.98)
1006.25 14	0.258 6	¹³⁹ Xe(39.68 s)	218.59(56), 296.53(21.7), 174.97(11.3)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
1006.3 4	0.094 24	⁹¹ Rb(58.4 s)	93.628(33.7), 2564.19(12.5), 3599.67(10.4)
1006.3 3	0.068 17	¹⁹¹ Au(3.18 h)	586.45(17), 277.88(7.2), 674.19(6.8)
1006.3 5	<0.15	²³⁶ Pa(9.1 m)	642.35(37.0), 687.59(9.9), 1762.7(6.0)
1006.351 100.492 19		¹⁸⁰ Re(2.44 m)	902.795(90), 103.557(22.2), 825.357(9.9)
1006.4	1.2	⁹⁶ Y(9.6 s)	1750.42(89), 915.0(60), 617.1(56)
• 1006.4 1	1.36 8	¹⁴⁷ Gd(38.06 h)	229.32(63), 396.00(34.3), 929.01(20.2)
1006.4 4	0.11 3	¹⁵³ Dy(6.4 h)	80.723(11.10), 213.754(10.90), 99.659(10.51)
1006.4 4	0.09 5	¹⁸⁵ Au(4.25 m)	310.6(13), 243.1(6.6), 77.7(6)
• 1006.466 170.0435 16		⁷¹ As(65.28 h)	174.954(82.00), 1095.490(4.08), 499.876(3.624)
1006.5 2	0.74 19	⁷¹ Zn(3.96 h)	386.28(93), 487.38(62), 620.18(57)
1006.5 5	0.93 14	²²⁸ Fr(39 s)	473.7(10.2), 474.0(7.6), 410.40(6.3)
1006.6 2	0.56 14	¹⁷³ Ta(3.14 h)	172.2(18), 69.70(5.9), 90.3(5.0)
1006.7 2	0.28 4	⁹⁶ Rh(9.90 m)	832.57(100), 685.49(95.7), 631.71(74.5)
1006.7 2	0.86 20	⁹⁶ Rh(1.51 m)	832.57(39), 1098.51(8.9), 1692.2(7.0)
1006.7 2	0.24	¹⁴² La(91.1 m)	641.285(47), 2397.8(13.3), 2542.7(10.00)
1006.7 1	†1.7 2	¹⁷² Ir(2.0 s)	227.8(†100.0), 378.4(†62.0), 448.4(†40.5)
1006.8	1.73 10	¹⁵⁰ Pr(6.19 s)	130.2(32), 722.5(7.0), 852.7(6.1)
1006.86 16	3.1 3	¹⁵⁶ Tm(83.8 s)	344.55(86), 452.85(17.2), 585.93(14.6)
1006.88	0.11	²⁰³ Bi(11.76 h)	820.3(30), 825.2(14.6), 896.9(13)
1007.0 3	0.103 13	¹¹² Ag(3.130 h)	617.27(43), 1387.67(5.4), 606.49(3.1)
1007		¹⁵⁸ Ho(21.3 m)	406.14(†100), 838.9(†84.3), 1484.1(†66.2)
• 1007.0 6	0.084 24	¹⁹⁴ Au(38.02 h)	328.455(60), 293.545(10.2), 1468.91(6.3)
1007 1	0.0028	²³³ Th(22.3 m)	86.477(2.7), 29.374(2.5), 459.222(1.4)
1007.08 8	3.24 10	¹⁰³ Ag(65.7 m)	118.72(31.2), 148.193(28.3), 266.86(13.3)
1007.1 2	2.2 3	¹⁰⁸ Tc(5.17 s)	242.25(82), 465.6(14.3), 707.81(11.4)
• 1007.15 10	3.06 11	²⁰⁶ Po(8.8 d)	1032.26(32.9), 511.36(24.1), 286.410(23.8)
1007.2 4	0.92 10	¹⁶¹ Yb(4.2 m)	78.20(34), 599.88(25.9), 631.45(13.9)
1007.2 2	†2.12 21	¹⁸⁵ Hg(21.6 s)	222.8(†100.0), 258.7(†98), 212.5(†58)
1007.2 5	†0.20 2	¹⁸⁸ Au(8.84 m)	265.63(†100), 340.04(†23.9), 605.5(†16.3)
1007.22 6		¹⁰⁸ Rh(16.8 s)	433.937(43), 618.84(15.0), 497.22(5.2)
1007.22 6	0.0139 7	¹⁰⁸ Ag(2.37 m)	433.937(0.50), 618.84(0.261), 510.1(>0.0035)
1007.3 4	†2.7 5	¹⁸⁹ Hg(7.6 m)	320.99(†100), 78.21(†63), 565.42(†48)
1007.3 2	0.16 3	²⁴² Np(2.2 m)	735.93(5), 780.44(2.76), 1473.1(2.34)
1007.31 20	0.41 10	²⁴⁵ Pu(10.5 h)	327.428(25.4), 560.13(5.4), 308.222(4.9)
1007.4 3	0.177 17	¹⁰¹ Mo(14.61 m)	191.92(19), 590.91(16.4), 1012.47(12.8)
1007.4	†0.9	¹³¹ Pr(1.53 m)	266.13(†100), 72.82(†64), 387.56(†38)
1007.42 16	0.140 14	¹⁸⁷ Au(8.4 m)	1331.81(7.0), 1408.23(3.06), 914.73(3.02)
1007.431 250.161 3		¹²⁵ Xe(16.9 h)	188.418(54), 243.378(30.1), 54.968(6.81)
• 1007.465 321.80 4		¹⁶⁹ Lu(34.06 h)	960.622(23.4), 191.2137(20.6), 1449.74(9.92)
1007.47 20	0.0135 5	⁷⁷ Ge(11.30 h)	264.44(54), 211.03(30.8), 215.50(28.6)
1007.5 2	23.4 7	⁶⁹ Cu(2.85 m)	834.4(13.1), 531.2(6.0), 1429.8(3.42)
1007.5 3	1.28 23	⁹⁸ Pd(17.7 m)	112.0(58), 662.2(19.7), 106.75(13.9)
1007.5	†5	⁹⁹ Cd(16 s)	342.6(†100), 671.8(†31), 1583.3(†28)
1007.5 4	3.6 3	¹²² In(10.8 s)	1140.55(100), 1001.58(98.4), 103.74(81)
1007.5 2	0.66 17	¹³³ Te(55.4 m)	912.671(55.28), 647.51(19.4), 863.955(15.6)
• 1007.59 3	1.271 13	⁸² Br(35.30 h)	776.517(83.5), 554.348(70.8), 619.106(43.4)
1007.59 3	7.17 8	⁸² Rb(6.472 h)	776.517(84), 554.348(62.4), 619.106(37.976)
1007.6 1	0.46 7	¹⁴¹ Xe(1.73 s)	909.23(24.0), 118.705(16.1), 105.937(9.8)
1007.6 4	0.18 4	¹⁶² Tm(21.70 m)	102.00(17.5), 798.68(8.4), 227.52(7)
1007.6 3	2.7 3	¹⁹⁸ Tl(5.3 h)	411.8044(82), 675.8874(11), 636.4(10.1)
1007.7 2	0.15 4	¹⁰⁹ Ru(34.5 s)	206.29(22.0), 225.98(19.6), 1929.05(13.7)
1007.7 6	†7.1 9	¹⁶⁰ Tm(9.4 m)	125.8(†100), 728.5(†37), 264.1(†27)
1007.7 6	0.21 5	¹⁶⁰ Tm(74.5 s)	264.1(9), 125.8(6.5), 375.8(2.4)
1007.72 9	†0.92 8	¹⁴⁸ Tb(60 m)	784.430(†119.0), 489.049(†28.0), 1079.025(†16.2)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
1007.76 ¹²	0.427 ²⁴	¹⁴¹ Cs(24.94 s)	48.53(7.90), 561.63(4.7), 1194.02(3.95)
1007.8 ⁵	0.31 ⁹	¹⁵⁷ Tm(3.63 m)	455.00(9.3), 385.5(8.8), 348.40(8.4)
1007.8 ¹	†3.4 ³	¹⁷¹ Ta(23.3 m)	49.6(†100), 506.4(†54), 501.8(†22.6)
1007.8 ²	2.9 ⁷	¹⁷⁶ Re(5.3 m)	240.17(48), 109.08(25.0), 848.7(4.0)
1007.8 ¹	1.09 ¹⁷	¹⁸¹ Au(11.4 s)	198.60(4.4), 2022.4(4.2), 79.40(4.2)
1007.87 ⁶	0.096 ¹⁴	¹⁸⁹ Pt(10.87 h)	721.41(9.3), 94.33(7.6), 568.84(7.1)
1007.9 ⁸	0.0123 ¹⁸	¹⁴² Pm(40.5 s)	1575.85(2.0), 641.4(0.384), 2384.3(0.067)
1007.9 ¹	0.73 ⁶	²⁴⁹ Es(102.2 m)	379.5(40.4), 813.2(9.2), 375.1(3.3)
1007.96 ¹	0.798 ⁷	¹³¹ Te(25.0 m)	149.716(69), 452.323(18.18), 1146.96(4.95)
1008.00 ²⁰	0.50 ¹⁰	⁹⁹ Sr(0.269 s)	125.118(16.1), 536.12(14.0), 1198.12(9.2)
1008.0 ⁵	0.49 ⁸	¹²⁶ Ba(100 m)	233.6(19.6), 257.6(7.6), 241.0(6.0)
1008.0 ³	0.20 ³	¹⁸³ Au(42.0 s)	161.18(9.4), 214.13(5.9), 313.08(5.0)
1008.03 ³¹	†1.7	¹⁹⁷ Ir(5.8 m)	469.72(†100), 430.56(†61), 815.92(†45)
1008.1 ²	1.11 ⁴	¹⁴⁰ Cs(63.7 s)	602.345(71.1), 908.25(11.6), 1200.25(6.39)
1008.1 ⁵	13 ³	¹⁷² Ho(25 s)	133.6(36), 178.0(23), 757.2(18)
1008.2 ³	0.27 ⁴	¹⁸³ Ir(58 m)	392.52(10.4), 228.70(6.9), 87.67(5.6)
1008.28 ⁵	1.35 ⁸	¹⁴³ Gd(112 s)	271.94(84), 588.00(15.7), 798.89(10.7)
1008.3 ³	6.0 ⁶	¹²⁹ In(0.61 s)	2118.0(45), 1865.0(32), 769.3(9.1)
1008.3 ³	0.22 ³	¹⁴⁹ Dy(4.20 m)	100.8(15.2), 789.4(11.8), 1776.3(11.1)
1008.39 ¹⁰	1.76 ¹⁶	¹⁰⁵ Tc(7.6 m)	143.26(16), 107.945(14.1), 321.50(11.1)
1008.4 ⁵	1.7×10 ⁻⁵ ⁹	¹³⁵ La(19.5 h)	480.51(1.5), 874.51(0.164), 587.83(0.1108)
1008.4	0.064 ¹⁴	¹⁴¹ Ba(18.27 m)	190.328(46.0), 304.194(25.4), 276.948(23.4)
1008.4 ⁸	†2.0 ⁵	¹⁹¹ Tl(5.22 m)	452.6(†100), 470.1(†98), 391.6(†96)
1008.4 ⁴	0.035 ⁸	²⁰⁹ At(5.41 h)	545.0(91), 781.9(83.5), 790.2(63.5)
1008.42 ²⁰		¹⁹² Au(4.94 h)	316.50791(58.0), 295.95827(22.3), 2236.89(5.6)
1008.5 ²	0.62 ¹²	¹⁰⁸ In(58.0 m)	875.46(100), 632.96(100), 242.84(41)
1008.5 ⁶	0.6 ³	¹¹⁶ Cs(3.84 s)	393.5(<0.09), 524.3(76), 615.1(30.4)
1008.5 ¹	2.8 ³	¹¹⁹ Ag(2.1 s)	626.4(13), 366.2(12.1), 399.1(10.9)
1008.6 ¹⁰	0.043 ⁹	¹⁵¹ Nd(12.44 m)	116.80(43.4), 255.68(16.4), 1180.89(14.8)
1008.6 ⁴	0.124 ¹⁹	¹⁵⁸ Tm(3.98 m)	192.13(62), 335.10(16.8), 1149.83(7.6)
1008.6 ⁶	0.049 ²⁴	¹⁶¹ Er(3.21 h)	826.6(3.0), 211.15(12.2), 592.6(3.7)
1008.6 ⁵	0.0037 ¹⁴	¹⁶⁷ Yb(17.5 m)	113.34(55.3), 106.18(22.5), 176.25(21)
1008.60 ⁴	2.24 ²³	²⁰⁸ At(1.63 h)	686.527(98), 660.040(89), 177.595(48.6)
1008.64 ²⁸	1.76 ²⁰	²⁰⁶ At(30.0 m)	700.66(98), 477.10(86), 395.54(48)
1008.8 ¹⁰	>0.6	⁹⁶ Pd(122 s)	124.70(65), 762.3(50.0), 499.7(17.9)
• 1008.87 ¹⁰	0.09 ⁶	²⁰⁶ Po(8.8 d)	1032.26(32.9), 511.36(24.1), 286.410(23.8)
1008.9 ⁴	†0.7 ⁴	¹¹³ Ru(0.80 s)	263.2(†100), 211.7(†31.0), 337.5(†27.9)
1008.93 ⁵	0.92 ⁷	⁷⁹ Ga(2.847 s)	464.79(24.2), 516.41(21.5), 1187.28(12.8)
1008.98 ²³	0.19 ³	⁹¹ Kr(8.57 s)	108.788(43.5), 506.592(19.1), 612.87(7.7)
1009.0 ⁴	0.046 ⁷	¹³² I(2.295 h)	667.718(99), 772.60(75.6), 954.55(17.6)
1009.0 ⁵	1.71 ¹⁶	²²⁶ Fr(48 s)	253.73(22.3), 186.05(16.3), 253.9(2.5)
1009.1 ⁴	2.91 ²⁴	¹⁴¹ Sm(22.6 m)	196.88(74), 431.6(40.4), 777.6(20.3)
1009.12 ²⁰	1.74 ¹³	⁹⁹ Sr(0.269 s)	125.118(16.1), 536.12(14.0), 1198.12(9.2)
1009.2 ³	0.048 ¹⁰	⁸⁷ Br(55.60 s)	1419.71(22.0), 1476.04(7.9), 1577.60(6.0)
1009.25 ¹⁶	1.4 ⁶	⁵⁴ V(49.8 s)	834.848(97.1), 989.01(80.1), 2259.35(45.6)
1009.27 ⁶	30.3 ¹⁵	¹⁰⁶ In(6.2 m)	632.66(100), 861.16(92), 997.87(48)
• 1009.27	0.011	¹⁴⁶ Eu(4.59 d)	747.2(98), 633.03(43), 634.07(37)
1009.3 ¹	0.05 ⁴	⁹⁸ Nb(51.3 m)	787.374(93), 722.645(73.8), 1168.830(17.8)
1009.3 ⁸	0.023 ¹²	¹⁶⁵ Yb(9.9 m)	80.11(49), 68.86(9.1), 1090.28(4.4)
1009.31 ⁴	0.070 ³	¹³³ La(3.912 h)	278.835(2.50), 302.353(1.648), 290.06(1.413)
1009.35 ¹⁴	0.060 ⁹	⁶⁶ Ga(9.49 h)	1039.30(37), 2752.01(23.38), 833.50(5.89)
1009.35 ²⁰	0.027 ⁵	¹⁹⁵ Hg(9.9 h)	779.80(7), 61.46(6.2), 585.13(1.99)
1009.35 ¹⁰	0.39 ³	¹⁹⁷ Tl(2.84 h)	425.84(12.9), 152.22(7.2), 1411.34(4.5)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
1009.36 ¹⁷	2.4 ⁶	¹⁸¹ Re(19.9 h)	365.57(56), 360.70(20), 639.30(6.4)
1009.4 ⁴	0.037 ⁹	⁷⁹ Rb(22.9 m)	688.1(23), 182.77(19.2), 143.41(13.9)
1009.4 ⁵	0.27 ⁴	¹⁰³ Cd(7.3 m)	1461.81(12), 1448.70(5.55), 1079.90(5.44)
1009.4 ⁴	0.12 ³	¹¹² Sb(51.4 s)	1257.05(96), 990.70(14.3), 670.0(3.7)
• 1009.4 ³	1.4×10^{-8} ³	²³⁹ Pu(24110 y)	51.624(0.007100), 38.661(0.000500), 129.297(0.00631)
• 1009.50 ³⁰	0.0394 ²²	¹⁷⁰ Lu(2.00 d)	84.2551(4.256), 1280.25(3.450), 2041.88(1.434)
• 1009.53 ⁶	0.071 ¹²	¹⁵⁶ Tb(5.35 d)	534.318(66.6), 199.2132(40.9), 1222.36(31.00)
1009.59 ¹⁵	0.281 ¹⁶	¹⁶³ Yb(11.05 m)	860.28(10.1), 63.62(6.5), 123.21(1.98)
1009.6	6.5 ¹⁴	³⁵ Si(0.78 s)	4100.7(36.5), 3859.5(32.7), 2386.3(31.6)
1009.6 ³	2.5 ³	¹⁸⁴ Au(53.0 s)	162.97(50), 272.98(40), 362.47(17.5)
1009.69 ³	0.164 ⁶	¹⁵¹ Tb(17.609 h)	287.357(28.3), 251.863(26.3), 108.088(24.3)
1009.7 ³	0.166 ²²	¹⁶⁷ Lu(51.5 m)	29.66(14.4), 239.22(8.6), 213.19(3.6)
1009.7 ¹	0.246 ²⁵	²³⁰ Ac(122 s)	454.95(8), 508.20(5.15), 1243.9(3.50)
• 1009.7 ¹	1.08 ⁸	²³⁰ Pa(17.4 d)	951.95(1.65), 918.48(8.2), 454.95(6.27)
1009.73 ¹³	\dagger 2.10 ²⁴	¹⁴⁴ Cs(1.01 s)	199.326(\dagger 100.0), 639.00(\dagger 21.2), 758.96(\dagger 20.6)
1009.78 ⁸	29.8 ⁶	¹³⁸ Cs(33.41 m)	1435.795(76.3), 462.796(30.7), 2218.00(15.2)
1009.8 ³	0.104 ⁷	¹³⁵ Te(19.0 s)	603.5(37.0), 266.8(10.36), 870.3(7.73)
1009.8 ⁴	0.18 ⁹	¹⁸⁸ Tl(71 s)	412.7(88), 592.0(61), 504.2(23.3)
1009.8 ³	\dagger 30 ²	¹⁹⁵ Bi(183 s)	807.6(\dagger 100), 831.7(\dagger 100), 776.2(\dagger 95)
• 1009.9 ³	0.0033 ²⁵	⁷¹ As(65.28 h)	174.954(82.00), 1095.490(4.08), 499.876(3.624)
1009.9 ²	0.0041 ⁹	¹³⁷ Xe(3.818 m)	455.490(31), 848.95(0.62), 1783.43(0.415)
1009.9 ²	0.11 ³	¹⁷³ Ta(3.14 h)	172.2(18), 69.70(5.9), 90.3(5.0)
1009.9 ³	0.066 ¹⁰	²³⁴ Pa(6.70 h)	131.30(18), 946.00(13.4), 883.24(9.6)
1009.9 ³		²³⁴ Pa(6.70 h)	131.30(18), 946.00(13.4), 883.24(9.6)
1009.96 ¹⁰	0.029 ³	¹⁵⁵ Dy(9.9 h)	226.918(68.4), 184.564(3.37), 1089.8(>2.8)
1009.96 ¹⁷	0.40 ⁶	¹⁸³ Au(42.0 s)	161.18(9.4), 214.13(5.9), 313.08(5.0)
1009.99 ¹⁰	0.33 ⁴	¹⁹⁵ Tl(1.16 h)	563.52(10.5), 884.47(10.0), 1363.88(8.4)
1010.0 ³	6.1×10^{-5} ²⁰	¹⁰⁹ Pd(13.7012 h)	88.04(1.171), 311.4(0.032), 647.3(0.024)
1010.0 ⁹	\dagger 2.6 ⁵	¹³² Pr(1.6 m)	325.5(\dagger 100), 496.9(\dagger 25), 822.4(\dagger 17.3)
• 1010.20	0.000004	²⁴² Cm(162.8 d)	44.08(0.0325), 101.90(0.0025), 157.42(0.0014)
1010.10 ²⁰	0.52 ⁷	⁹⁹ Ag(124 s)	264.41(65), 832.29(13.5), 805.07(12.5)
1010.18 ²³	0.83 ²⁴	¹⁸¹ Os(105 m)	238.75(44), 826.77(20), 118.03(12.9)
1010.2 ³	\dagger 2.3	¹⁵⁴ Nd(25.9 s)	151.703(\dagger 800), 799.55(\dagger 600), 180.693(\dagger 510)
• 1010.226 ^{150.091}	6	¹⁸⁴ Re(38.0 d)	903.279(37.9), 792.071(37.5), 111.208(17.1)
• 1010.287 ^{180.0770}	22	¹⁶⁶ Ho(1.20×10^3 y)	184.410(72.6), 810.276(58.08), 711.683(55.32)
1010.29 ²	9.54 ²⁰	¹⁴³ Ba(14.33 s)	211.475(25), 798.79(15.6), 980.45(11.55)
1010.3 ⁵	0.065 ⁹	¹¹⁵ Ag(20.0 m)	229.08(18), 212.80(4.4), 472.70(4.0)
1010.3 ⁵	0.24 ⁵	¹²¹ Xe(40.1 m)	252.7(13), 132.8(10.9), 445.2(7.7)
1010.3 ³	0.017 ⁴	²⁰¹ Pb(9.33 h)	331.19(79), 361.27(9.9), 945.96(7.4)
• 1010.35 ²⁰	0.0279 ²¹	⁸³ Sr(32.41 h)	762.65(30), 381.53(14.1), 418.37(4.41)
1010.4 ¹⁰	0.55 ⁴	¹⁴⁰ Cs(63.7 s)	602.345(71.1), 908.25(11.6), 1200.25(6.39)
1010.4 ³	3.06 ¹⁰	¹⁵¹ Dy(17.9 m)	386.10(19.4), 49.46(18.0), 546.31(14.3)
1010.5 ⁵	0.017 ¹¹	⁶⁶ Ge(2.26 h)	43.89(28.7), 381.85(28), 272.97(10.4)
1010.50 ⁷	0.72 ³	⁹⁵ Ru(1.643 h)	336.43(70.2), 1096.76(21.0), 626.77(17.8)
1010.5 ⁵	0.059 ²⁰	¹¹⁴ Sb(3.49 m)	1299.90(99), 887.60(17.4), 327.18(7.0)
1010.5 ²	2.30 ¹²	¹⁴⁹ Dy(4.20 m)	100.8(15.2), 789.4(11.8), 1776.3(11.1)
1010.54 ¹⁰	1.05 ⁵	¹⁹⁴ Pb(12.0 m)	581.82(18.8), 1519.45(16.4), 203.82(16.2)
1010.55 ¹⁸	0.24 ⁴	¹⁰¹ Sr(118 ms)	128.34(18.0), 1124.82(10.9), 510.73(8.5)
1010.56 ²⁴	0.29 ⁶	¹⁶² Tm(21.70 m)	102.00(17.5), 798.68(8.4), 227.52(7)
1010.6 ⁴	0.84 ¹²	¹⁷⁵ Ta(10.5 h)	207.4(14.0), 348.5(12.0), 266.9(10.8)
1010.69 ²⁵	0.008 ⁵	⁷³ Se(39.8 m)	67.03(2.59), 253.70(2.356), 84.0(2.03)
1010.7 ²	\dagger 10.0 ⁸	¹⁵² Tb(17.5 h)	344.281(\dagger 1500), 586.294(\dagger 223), 271.135(\dagger 203)
1010.7 ³	0.118 ²⁰	¹⁵³ Dy(6.4 h)	80.723(11.10), 213.754(10.90), 99.659(10.51)
1010.7 ¹	\dagger 1.32 ¹³	¹⁵⁸ Ho(11.3 m)	218.21(\dagger 100.0), 98.91(\dagger 70), 945.7(\dagger 37)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
• 1010.71 17	0.037 13	¹⁷² Lu(6.70 d)	1093.657(62.5), 900.724(29.8), 181.528(20.6)
1010.8 5	0.43 9	¹⁴⁴ La(40.8 s)	397.440(94.3), 541.20(39.2), 844.8(22.3)
1010.8 3	0.022 15	¹⁵¹ Nd(12.44 m)	116.80(43.4), 255.68(16.4), 1180.89(14.8)
1010.8 3	0.162 25	¹⁵⁵ Ho(48 m)	240.19(12.5), 136.30(5.00), 45.38(5)
1010.8 3	0.085 12	¹⁶¹ Er(3.21 h)	826.6(3.0), 211.15(12.2), 592.6(3.7)
1010.8 4	0.085 12	¹⁶¹ Er(3.21 h)	826.6(3.0), 211.15(12.2), 592.6(3.7)
1010.84 20	0.109 14	⁸⁹ Kr(3.15 m)	220.948(20.1), 586.03(16.6), 904.27(7.2)
1010.9 3	0.60 8	¹⁹⁰ Re(3.2 h)	186.718(27.8), 605.24(14.9), 557.972(14.3)
1010.92 6	0.68 7	⁷¹ Zn(3.96 h)	386.28(93), 487.38(62), 620.18(57)
1011 1	>0.0035	⁸¹ Rb(30.5 m)	49.56(0.78), 643.6(0.115), 1194.9(0.112)
1011.0 2	0.0008 3	¹⁴⁵ Pr(5.984 h)	748.278(0.5250), 675.795(0.514), 72.500(0.261)
1011 1	0.0040	²³³ Th(22.3 m)	86.477(2.7), 29.374(2.5), 459.222(1.4)
1011.05 14	2.26 21	¹⁰¹ Mo(14.61 m)	191.92(19), 590.91(16.4), 1012.47(12.8)
1011.06 6	0.76 8	¹⁸⁶ Ir(16.64 h)	296.911(64.0), 137.155(42), 434.849(34.4)
1011.10 20	0.42 6	¹²¹ Ag(0.78 s)	314.55(32.1), 353.43(19.9), 500.61(9.3)
1011.1	†0.42 6	¹³⁵ Pm(49 s)	198.5(†100), 207.2(†70), 463.5(†62)
1011.1 3	0.031 11	¹⁷⁶ Ta(8.09 h)	1159.28(25), 88.34(12), 1224.93(6)
1011.1 3	1.9 3	¹⁹⁶ Bi(308 s)	1049.21(87), 689.00(35.5), 776.6(9.1)
1011.2	0.55 23	¹⁴⁸ Ba(0.607 s)	56.08(29.20), 133.53(3.88), 415.78(3.59)
1011.23 6	0.074 4	¹²¹ I(2.12 h)	212.189(84), 532.08(6.07), 598.74(1.47)
1011.3 5	0.38	¹⁰¹ Cd(1.2 m)	98.0(47), 1722.5(11), 1259.3(8)
1011.3 5	0.44 5	¹²³ Xe(2.08 h)	148.9(49), 178.1(14.9), 330.2(8.6)
1011.4 5	0.20 4	⁹⁶ Rh(9.90 m)	832.57(100), 685.49(95.7), 631.71(74.5)
1011.4 3	3.93 10	¹⁴² La(91.1 m)	641.285(47), 2397.8(13.3), 2542.7(10.00)
• 1011.4 5		¹⁴⁶ Eu(4.59 d)	747.2(98), 633.03(43), 634.07(37)
1011.42 8	0.34 3	²⁰⁸ Rn(24.35 m)	426.78(7.07), 251.05(5.02), 350.026(3.34)
1011.5 3	0.14 4	¹⁵⁸ Tm(3.98 m)	192.13(62), 335.10(16.8), 1149.83(7.6)
1011.6 3	†3.8 5	¹³⁸ Pm(3.24 m)	520.9(†100), 729.0(†37.8), 493.1(†21.6)
1011.7 7	0.071 24	¹⁰⁷ In(32.4 m)	204.97(47), 505.51(11.9), 320.92(10.2)
1011.7 1	2.66 15	¹⁰⁹ Ru(34.5 s)	206.29(22.0), 225.98(19.6), 1929.05(13.7)
1011.75 4	0.0018 4	¹⁵ C(2.449 s)	5297.817(63.2), 8310.15(0.032), 9046.78(0.031)
1011.8 5	0.73 16	¹²⁶ Ba(100 m)	233.6(19.6), 257.6(7.6), 241.0(6.0)
• 1011.8 5	3.6 2	¹⁹⁴ Ir(171 d)	482.833(97), 328.455(93), 600.5(62)
1011.82 10	0.048 9	¹⁸⁹ Pt(10.87 h)	721.41(9.3), 94.33(7.6), 568.84(7.1)
• 1011.87 5	0.314 6	¹⁵⁶ Eu(15.19 d)	811.79(9.70), 88.9667(8.4), 1230.68(7.98)
1011.9 4	1.46 17	¹⁷⁶ Tm(1.9 m)	189.57(44.5), 1069.3(34), 381.8(21.8)
1011.92 9	0.048 9	¹⁸⁹ Pt(10.87 h)	721.41(9.3), 94.33(7.6), 568.84(7.1)
• 1012.03 15	0.025 5	¹⁵³ Tb(2.34 d)	212.038(31.0), 170.504(6.8), 109.758(6.4)
1012.190 100.032 4		¹⁶⁸ Ho(2.99 m)	741.356(36.6), 821.164(34.5), 815.990(18.6)
• 1012.190 100.011 1		¹⁶⁸ Tm(93.1 d)	198.241(52.39), 815.990(48.99), 447.515(23.05)
1012.2 3	0.15 3	⁹⁵ Rb(377.5 ms)	352.02(49), 204.02(15.1), 680.7(14.8)
1012.2 3	†>1.4	⁹⁶ Rb(0.199 s)	352.02(†700), 204.02(†200), 680.7(†121)
1012.2 3	0.220 21	¹³⁶ Pr(13.1 m)	552.16(76), 539.75(52), 1092.3(18.5)
• 1012.2 5	0.0036 9	¹⁵¹ Pm(28.40 h)	340.08(23), 167.75(8.3), 275.21(6.8)
• 1012.23 12	0.195 7	²⁰⁶ Po(8.8 d)	1032.26(32.9), 511.36(24.1), 286.410(23.8)
1012.25 4	0.954 24	⁸⁹ Br(4.40 s)	1097.82(6.00), 997.93(4.26), 953.53(4.26)
1012.3 8	0.91 17	⁷⁷ Rb(3.75 m)	66.52(57), 178.99(22.2), 393.37(9.7)
1012.3 3	0.08 6	¹¹⁷ Cd(2.49 h)	273.349(28), 1303.27(18.4), 344.459(17.9)
1012.3 5	0.112 12	¹²⁷ Ba(12.7 m)	180.8(12), 114.8(9.3), 66.06(2.12)
1012.3 3	2.75 21	¹³⁹ Nd(5.50 h)	113.94(40), 737.96(35), 982.2(26.4)
• 1012.30 30	0.0130 13	¹⁷⁰ Lu(2.00 d)	84.2551(4.256), 1280.25(3.450), 2041.88(1.434)
1012.3 3	†28.2 28	²³³ Pu(20.9 m)	235.4(†100), 534.8(†90.2), 500.3(†38.6)
1012.4 2	†0.43 4	¹⁵⁸ Ho(11.3 m)	218.21(†100.0), 98.91(†70), 945.7(†37)
1012.40 40	0.061 20	¹⁶⁵ Yb(9.9 m)	80.11(49), 68.86(9.1), 1090.28(4.4)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_\gamma(\Delta E)$	$I_\gamma(\Delta I)$	Decay Parent	Associated γ -rays: $E_\gamma(I_\gamma)$
1012.47 38	12.8 8	¹⁰¹ Mo(14.61 m)	191.92(19), 590.91(16.4), 695.60(7.2)
1012.5 5	0.45 5	¹¹⁷ Xe(61 s)	28.5(7.0), 221.3(10.0), 32.3(7.6)
1012.5	0.147 23	¹⁴¹ Ba(18.27 m)	190.328(46.0), 304.194(25.4), 276.948(23.4)
1012.50 20	0.038 7	¹⁸⁷ Ir(10.5 h)	912.95(4.79), 427.12(4.12), 400.89(3.94)
1012.5 1	0.212 18	²¹¹ Rn(14.6 h)	674.1(45), 1362.9(32.5), 678.4(28.9)
1012.53 7		¹⁶⁸ Lu(5.5 m)	1483.65(+100), 228.58(+97), 111.8(+68)
1012.53 7		¹⁶⁸ Lu(6.7 m)	198.82(28), 979.22(20), 896.12(15)
• 1012.54 8	0.121 18	¹⁸⁸ Ir(41.5 h)	155.032(29.7), 2214.62(18.7), 632.99(18)
• 1012.6 3	0.031 13	¹⁷² Lu(6.70 d)	1093.657(62.5), 900.724(29.8), 181.528(20.6)
• 1012.610 210.0225 7		¹⁴⁹ Gd(9.28 d)	149.735(48.2), 298.634(28.6), 346.651(23.9)
1012.62 18	1.66 13	¹¹⁵ Te(5.8 m)	723.569(30), 1380.58(23.0), 1326.83(22.7)
1012.7 6	0.13 4	¹⁴⁶ Pr(24.15 m)	453.88(48.0), 1523.7(15.6), 735.72(7.5)
1012.7	0.012 7	¹⁵¹ Nd(12.44 m)	116.80(43.4), 255.68(16.4), 1180.89(14.8)
1012.70 6	0.37 3	¹⁵³ Dy(6.4 h)	80.723(11.10), 213.754(10.90), 99.659(10.51)
1012.745 210.0055 3		¹⁴⁵ Pr(5.984 h)	748.278(0.5250), 675.795(0.514), 72.500(0.261)
• 1012.8 2	0.0029 12	¹⁵⁴ Eu(8.593 y)	123.071(40.79), 1274.436(35.19), 723.304(20.22)
1012.89 4	0.298 14	¹⁵⁵ Dy(9.9 h)	226.918(68.4), 184.564(3.37), 1089.8(>2.8)
1012.9 3	0.098 20	¹⁵⁴ Tb(9.4 h)	123.071(30), 247.925(22.1), 540.18(20)
1012.90 10	0.00297 20	¹⁶¹ Gd(3.66 m)	360.94(0.59), 314.92(22.7), 102.315(13.9)
1012.91 10	1.99 25	¹²³ Cd(1.82 s)	1165.86(25.7), 1027.45(22.6), 2102.81(12.5)
1012.95 10	1.76 9	¹⁹⁹ Tl(7.42 h)	455.46(12.4), 208.20597(12.3), 247.26(9.3)
1013.0 2	9.5 8	⁸¹ Ge(7.6 s)	335.98(58.9), 792.94(34), 1495.53(19.9)
1013.0 7	3.0 4	⁹⁸ Ag(46.7 s)	863.1(100), 678.5(85), 570.93(53)
1013.0 4	0.43 9	¹⁵⁷ Tm(3.63 m)	455.00(9.3), 385.5(8.8), 348.40(8.4)
• 1013.08 10	0.080 14	¹⁶⁹ Lu(34.06 h)	960.622(23.4), 191.2137(20.6), 1449.74(9.92)
1013.1 5	0.25 6	¹³⁶ Nd(50.65 m)	108.90(32), 40.2(18.9), 574.8(10.4)
1013.1 2	0.070 17	¹⁷³ Ta(3.14 h)	172.2(18), 69.70(5.9), 90.3(5.0)
1013.1 3	0.102 15	¹⁸¹ Au(11.4 s)	198.60(4.4), 2022.4(4.2), 79.40(4.2)
1013.1 4	0.085 7	¹⁹⁰ Au(42.8 m)	295.78(71.0), 301.82(23.4), 597.67(9.4)
• 1013.20 8	2.50 5	¹¹⁹ Te(4.70 d)	153.59(66), 1212.73(66), 270.53(28.0)
1013.2 6	0.05 3	¹⁵⁶ Ho(56 m)	266.35(54.7), 137.83(51), 366.25(10.73)
1013.2 3	0.10 3	²⁴⁵ Pu(10.5 h)	327.428(25.4), 560.13(5.4), 308.222(4.9)
1013.28 6	0.91 6	¹¹³ Sb(6.67 m)	497.96(80), 332.41(14.8), 88.25(2.7)
• 1013.30 4	0.082 19	²⁰⁵ Bi(15.31 d)	1764.36(1.368), 703.44(31), 987.62(0.585)
1013.33 17	6.0 3	⁹⁷ Rh(46.2 m)	189.21(49), 2245.6(14), 421.55(12.7)
1013.34 10	2.7 6	¹²² In(1.5 s)	1140.55(29), 2759.13(3.1), 2065.62(1.97)
1013.34 10	10.5 15	¹²² In(10.3 s)	1140.55(98), 1001.58(50.7), 1190.58(20.5)
1013.4	0.6 2	³⁶ P(5.6 s)	3290.7(100), 901.8(70.4), 1638.2(35.3)
1013.4 3	1.45 15	⁹⁹ Pd(21.4 m)	136.00(73), 263.60(15.2), 673.38(6.9)
1013.4 4	0.027 9	¹²⁰ Xe(40 m)	25.1(30), 72.6(9), 178.1(6.8)
1013.4 3	1.3 3	¹²² In(10.8 s)	1140.55(100), 1001.58(98.4), 103.74(81)
1013.4 2	0.18 7	¹⁴⁶ Ba(2.22 s)	140.7(20.2), 251.2(19.6), 121.2(14.2)
1013.4 4	0.094 18	¹⁶⁷ Lu(51.5 m)	29.66(14.4), 239.22(8.6), 213.19(3.6)
• 1013.40 6	0.0129 14	¹⁷¹ Lu(8.24 d)	739.78(47.8), 19.394(13.7), 667.404(11.04)
1013.4 10	0.010 5	²¹⁴ Bi(19.9 m)	609.312(44.8), 1764.494(15.36), 1120.287(14.80)
1013.4 5	0.071 16	²²⁷ Fr(2.47 m)	90.035(39), 585.804(29.5), 64.267(14.5)
1013.5 5	0.117 15	¹²³ Xe(2.08 h)	148.9(49), 178.1(14.9), 330.2(8.6)
1013.5 7	0.69 7	¹⁹⁹ Bi(27 m)	560.1(22.0), 424.85(22), 841.7(11)
1013.51 8	0.103 9	¹⁰⁵ Cd(55.5 m)	961.84(4.69), 346.870(4.20), 1302.459(3.98)
1013.57 8	0.0013 3	¹²⁹ Te(69.6 m)	27.81(16.3), 459.60(7.70), 487.39(1.42)
1013.58 20	0.0048 13	²²⁸ Ac(6.15 h)	911.205(26.6), 968.971(16.2), 338.322(11.3)
• 1013.59 18	0.0064 18	¹⁶⁵ Tm(30.06 h)	242.917(35.5), 47.155(16.9), 297.369(12.71)
1013.6 3	0.00086 10	¹⁶³ Er(75.0 m)	1113.5(0.0490), 436.1(0.0285), 439.94(0.0276)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
1013.6 3	$\dagger 0.72$ 17	^{188}Au (8.84 m)	265.63($\dagger 100$), 340.04($\dagger 23.9$), 605.5($\dagger 16.3$)
1013.606	170.007 3	^{28}Mg (20.91 h)	30.6383(95), 1342.27(52.6), 941.72(38.3)
1013.65 7	0.079 16	^{204}Bi (11.22 h)	899.15(98), 374.72(82), 984.02(59)
1013.7 2	2.62 21	^{83}As (13.4 s)	734.60(43), 1113.10(14.7), 2076.70(11.9)
1013.7 5	0.70 4	^{137}Pm (2.4 m)	177.5(40.29), 108.6(35), 233.6(29.57)
1013.70 14	0.63 3	^{205}At (26.2 m)	719.30(31), 669.41(8.6), 628.88(5.6)
1013.7 10	0.11 3	^{228}Fr (39 s)	473.7(10.2), 474.0(7.6), 410.40(6.3)
1013.7		^{228}Fr (39 s)	473.7(10.2), 474.0(7.6), 410.40(6.3)
1013.741 8	0.74 3	^{180}Re (2.44 m)	902.795(90), 103.557(22.2), 825.357(9.9)
1013.8 15	0.22 6	^{74}Kr (11.50 m)	89.65(31), 203.0(18.0), 296.67(9.9)
1013.8 4	5.9 17	^{99}Y (1.470 s)	121.761(33), 724.30(14.9), 536.2(6.6)
1013.8 3	0.7 3	^{140}Pm (9.2 s)	773.74(5.0), 477.1(2.6), 1204.8(1.9)
• 1013.808	1120.20 17	^{148}Pm (41.29 d)	550.284(94.5), 629.987(89), 725.673(32.7)
• 1013.808	110.532 12	^{148}Eu (54.5 d)	550.284(98.5), 629.987(71.9), 611.293(20.5)
1013.82 20	0.05 3	^{195}Tl (1.16 h)	563.52(10.5), 884.47(10.0), 1363.88(8.4)
1013.82 12	2.9 3	^{206}At (30.0 m)	700.66(98), 477.10(86), 395.54(48)
• 1013.84 3	0.058 12	^{205}Bi (15.31 d)	1764.36(1.368), 703.44(31), 987.62(0.585)
1013.9 3	0.21 5	^{97}Rb (169.9 ms)	167.1(26), 585.2(21.0), 600.5(10.6)
1013.9 1	0.284 17	^{143}Ba (14.33 s)	211.475(25), 798.79(15.6), 980.45(11.55)
1013.9 20	0.010 3	^{145}Gd (23.0 m)	1757.9(34.2), 1880.6(32.6), 1041.8(9.9)
1013.95 19	0.26 3	^{90}Rb (258 s)	831.69(94), 1375.36(16.7), 3317.00(14.4)
1013.97 10	3.4 9	^{125}Cd (0.65 s)	436.29(37), 1099.48(22.3), 2147.19(19.1)
1014.0 8	0.7 4	^{72}Br (78.6 s)	862.03(70), 1316.70(17.3), 454.70(13.1)
1014.0 4	2.7 5	^{80}Ge (29.5 s)	265.36(27.0), 110.4(6.5), 1564.3(4.9)
1014.0 3	0.30 8	^{119}Ag (2.1 s)	626.4(13), 366.2(12.1), 399.1(10.9)
1014.0 3	0.66 15	^{119}Cd (2.69 m)	292.9(36.8), 343.0(16.9), 1609.7(10.9)
1014.0 3	$\dagger 7.4$ 7	^{138}Pm (3.24 m)	520.9($\dagger 100$), 729.0($\dagger 37.8$), 493.1($\dagger 21.6$)
1014.0 3	0.9 2	^{150}Er (18.5 s)	475.8(100), 130.0(2.6), 1022.1(0.9)
1014.0 5	0.34	^{180}Ir (1.5 m)	276.4(56), 132.2(38.1), 699.0(13.4)
1014.1 5	10.7 5	^{201}Bi (108 m)	629.1(24.0), 936.2(11.3), 786.4(9.5)
• 1014.11 4	0.071 3	^{168}Tm (93.1 d)	198.241(52.39), 815.990(48.99), 447.515(23.05)
1014.2 2	0.36 5	^{76}Ga (32.6 s)	562.93(66), 545.51(26.0), 1108.41(15.8)
1014.2 2	0.023 8	^{101}Pd (8.47 h)	296.29(19), 590.44(12.06), 269.67(6.43)
1014.2 2	0.071 6	^{145}Gd (23.0 m)	1757.9(34.2), 1880.6(32.6), 1041.8(9.9)
1014.20 20	0.135 18	^{153}Dy (6.4 h)	80.723(11.10), 213.754(10.90), 99.659(10.51)
1014.3	$\dagger 10$	^{99}Cd (16 s)	342.6($\dagger 100$), 671.8($\dagger 31$), 1583.3($\dagger 28$)
• 1014.3 3	0.0013 4	^{143}Ce (33.039 h)	293.266(42.80), 57.356(11.7), 664.571(5.69)
• 1014.37 4	0.914 19	^{205}Bi (15.31 d)	1764.36(1.368), 703.44(31), 987.62(0.585)
1014.4 4	0.0121 8	^{81}Rb (30.5 m)	49.56(0.78), 643.6(0.115), 1194.9(0.112)
1014.4 2	$\dagger 2.33$ 21	^{185}Hg (21.6 s)	222.8($\dagger 100.0$), 258.7($\dagger 98$), 212.5($\dagger 58$)
1014.4 3	$\dagger 8.9$ 10	^{193}Tl (21.6 m)	324.37($\dagger 100$), 1044.7($\dagger 59$), 676.10($\dagger 48$)
1014.4 1	0.21 6	^{240}Np (61.9 m)	566.34(25.3), 973.9(23.8), 600.57(18.4)
1014.41 9	0.82 13	^{133}Sb (2.5 m)	1096.22(43.0), 817.8(18.5), 2755(12.5)
1014.42 3	28.0 4	^{27}Mg (9.458 m)	843.74(71.8), 170.68(0.8)
1014.42 3	0.0172 24	^{27}Si (4.16 s)	2211.0(0.180), 2981.82(0.026), 1720.3(0.0122)
1014.5 15	0.9 4	^{68}Cu (3.75 m)	1339.96(12.0), 1077.35(12), 1041.3(9.6)
• 1014.5 8	0.008 3	^{124}Sb (60.20 d)	602.730(97.8), 1690.980(47.3), 722.786(10.76)
1014.59 19	0.046 15	^{132}La (4.8 h)	464.55(76), 567.14(15.7), 1909.91(9.0)
1014.6 8	$\dagger 6.3$ 23	^{152}Pr (3.24 s)	164.2($\dagger 100$), 284.9($\dagger 81.0$), 72.40($\dagger 38.9$)
1014.6	$\dagger < 100$	^{238}Pa (2.3 m)	1015.3($\dagger < 100$), 635.18($\dagger 88$), 448.3($\dagger 76$)
1014.64 5	0.0173 5	^{211}Pb (36.1 m)	404.853(3.78), 832.01(3.52), 427.088(1.76)
• 1014.7 5	$\dagger 6.4 \times 10^2$	^{241}Am (432.2 y)	59.537($\dagger 60$), 26.345($\dagger 1000 \times 10^9$), 33.195($\dagger 6000 \times 10^8$)
1014.74 17	0.068 20	^{197}Pb (43 m)	385.85(74), 387.72(25.1), 222.45(24.6)
1014.75 5	0.236 8	^{121}I (2.12 h)	212.189(84), 532.08(6.07), 598.74(1.47)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
1014.9 6	0.0154 17	¹⁶² Tb(7.60 m)	260.070(37.2), 807.53(42.8), 888.20(38.7)
1014.9 3	4.82 10	¹⁷⁷ W(135 m)	115.65(50), 426.98(13.2), 1036.4(10.3)
1014.94 17	†5.2 5	¹⁸⁹ Hg(7.6 m)	320.99(†100), 78.21(†63), 565.42(†48)
1015.0 10	0.008 4	¹¹¹ Pd(23.4 m)	580.00(0.8), 70.44(0.78), 1459.0(0.56)
1015.0 1	0.312 24	¹⁴¹ Xe(1.73 s)	909.23(24.0), 118.705(16.1), 105.937(9.8)
1015 1	0.49 16	¹⁵⁹ Eu(18.1 m)	67.8(19), 78.6(9.1), 95.7(7.0)
1015.0 4	†4.7 4	¹⁶⁸ Re(4.4 s)	199.3(†100), 363.2(†95), 479.8(†62.8)
1015.02 10	†34 3	¹⁶⁴ Tm(2.0 m)	91.40(†1500), 1154.66(†366), 768.91(†279)
1015.02 7	†34 3	¹⁶⁴ Tm(2.0 m)	91.40(†1500), 1154.66(†366), 768.91(†279)
• 1015.09 6	0.074 5	¹⁵³ Tb(2.34 d)	212.038(31.0), 170.504(6.8), 109.758(6.4)
1015.1 3	0.11 6	¹³³ Te(55.4 m)	912.671(55.28), 647.51(19.4), 863.955(15.6)
1015.1	5.0 6	¹⁴⁵ Tb(29.5 s)	257.8(39), 987.8(37), 537.0(23)
1015.10 14	0.00119 20	¹⁶¹ Gd(3.66 m)	360.94(0.59), 314.92(22.7), 102.315(13.9)
1015.11 17	0.010 4	⁶¹ Cu(3.333 h)	282.956(12.2), 656.008(10.77), 67.412(4.23)
1015.14 6	9.8 5	⁷⁹ Ge(39.0 s)	230.62(61), 542.27(32.6), 755(18)
1015.2 4	0.105 14	¹⁸⁷ Au(8.4 m)	1331.81(7.0), 1408.23(3.06), 914.73(3.02)
1015.2 2	0.81 7	¹⁹⁴ Pb(12.0 m)	581.82(18.8), 1519.45(16.4), 203.82(16.2)
• 1015.2 7	†0.00098 24	²²⁷ Th(18.72 d)	235.971(†813), 50.13(†528), 256.25(†463)
1015.27 13	0.190 14	¹⁴² Cs(1.70 s)	359.598(27.2), 1326.46(12.92), 966.89(9.0)
1015.3 3	0.12 4	¹³³ Te(12.5 m)	312.072(62), 407.63(27.1), 1333.21(10.67)
1015.3 5	0.040 15	¹⁶³ Yb(11.05 m)	860.28(10.1), 63.62(6.5), 123.21(1.98)
1015.3 2	†<100	²³⁸ Pa(2.3 m)	1014.6(†<100), 635.18(†88), 448.3(†76)
• 1015.31 3	0.0121 5	¹⁴⁹ Gd(9.28 d)	149.735(48.2), 298.634(28.6), 346.651(23.9)
1015.35 6	0.60 5	¹⁵⁵ Ho(48 m)	240.19(12.5), 136.30(5.00), 45.38(5)
1015.35 7	0.088 18	¹⁸⁷ Ir(10.5 h)	912.95(4.79), 427.12(4.12), 400.89(3.94)
1015.4 4	0.94 13	¹⁵³ Ho(2.0 m)	295.8(67), 637.0(5.36), 688.5(3.7)
• 1015.4 4		¹⁶⁹ Lu(34.06 h)	960.622(23.4), 191.2137(20.6), 1449.74(9.92)
1015.40 8	0.24 3	²⁰⁷ At(1.80 h)	814.41(44.5), 588.33(19.2), 300.654(12.8)
1015.5 10	0.74 21	¹⁶⁴ Tb(3.0 m)	168.838(25.4), 754.80(23.3), 215.07(21)
1015.5 3	0.156 23	¹⁸¹ Au(11.4 s)	198.60(4.4), 2022.4(4.2), 79.40(4.2)
1015.5 5	0.00068 22	²⁰⁵ Hg(5.2 m)	203.750(2.2), 415.70(0.0130), 1218.96(0.0062)
1015.7 4	2.9 3	⁷² Cu(6.6 s)	652.4(68), 1004.6(12.0), 1657.7(10.1)
1015.7 10	†4	⁹⁹ Rb(59 ms)	90.8(†100), 125.2(†40), 1071.6(†26)
1015.7 2	1.6 3	¹³⁹ Sm(2.57 m)	273.7(37), 306.7(28.5), 596.3(8.0)
1015.70 30	0.10 2	¹⁶⁵ Yb(9.9 m)	80.11(49), 68.86(9.1), 1090.28(4.4)
1015.7 8	0.25 5	²²⁸ Fr(39 s)	473.7(10.2), 474.0(7.6), 410.40(6.3)
1015.75 7		¹⁶⁸ Lu(5.5 m)	1483.65(†100), 228.58(†97), 111.8(†68)
1015.75 7	1.8 3	¹⁶⁸ Lu(6.7 m)	198.82(28), 979.22(20), 896.12(15)
1015.8 4	3.3 4	¹¹⁶ Cs(3.84 s)	393.5(<0.09), 524.3(76), 615.1(30.4)
1015.87 4	3.38 13	¹⁴⁶ La(6.27 s)	258.47(64), 924.58(7.45), 702.28(6.43)
1015.90 10	0.42 4	⁹³ Ru(59.7 s)	680.68(6), 1434.73(0.73), 1801.4(0.378)
1015.90 10	0.7 3	⁹³ Ru(10.8 s)	1396.2(39), 1111.2(26.2), 2039.1(9.2)
1015.96 10	78	⁶⁸ As(151.6 s)	761.61(33.8), 651.12(32.1), 1777.70(20.1)
1016.0 4	0.41 7	¹⁵⁴ Tb(21.5 h)	123.071(26), 1274.436(10.5), 2187.10(9.9)
1016.05 20	0.088 9	¹⁸⁷ Ir(10.5 h)	912.95(4.79), 427.12(4.12), 400.89(3.94)
1016.1 2	11.0 6	¹⁴² Eu(1.22 m)	768.1(100), 1023.3(92.0), 556.6(86.6)
1016.162 136.2 6		⁸⁴ Br(31.80 m)	881.610(42), 1897.761(14.7), 3927.5(6.8)
1016.162 131		⁸⁴ Br(6.0 m)	425.30(100), 881.610(98), 1463.84(97)
• 1016.162 130.349 10		⁸⁴ Rb(32.77 d)	881.610(69), 1897.761(0.738)
1016.2 2	0.28 3	²³⁸ Am(98 m)	962.77(28), 918.69(23.0), 561.11(10.9)
1016.22 9	0.482 24	¹³³ Ce(4.9 h)	477.22(39), 510.36(20.7), 58.39(19.2)
1016.31 2	24.1 5	²⁰⁴ Po(3.53 h)	883.984(29.9), 270.068(27.8), 534.90(13.2)
1016.36 10	0.478 11	¹⁵⁹ Ho(33.05 m)	121.012(36.2), 131.973(23.6), 309.594(17.2)
1016.40 3	2.78 6	¹⁵¹ Nd(12.44 m)	116.80(43.4), 255.68(16.4), 1180.89(14.8)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
1016.4 4	$\dagger 1.8 3$	$^{152}\text{Tb}(17.5 \text{ h})$	344.281($\dagger 1500$), 586.294($\dagger 223$), 271.135($\dagger 203$)
1016.42 14	0.93 11	$^{81}\text{Ga}(1.221 \text{ s})$	216.47(37.4), 828.26(22.1), 711.18(17.6)
1016.44 15	0.019 3	$^{228}\text{Ac}(6.15 \text{ h})$	911.205(26.6), 968.971(16.2), 338.322(11.3)
1016.5 4	0.065 5	$^{143}\text{Ba}(14.33 \text{ s})$	211.475(25), 798.79(15.6), 980.45(11.55)
1016.55 20	0.041 5	$^{192}\text{Au}(4.94 \text{ h})$	316.50791(58.0), 295.95827(22.3), 2236.89(5.6)
1016.60 10	0.77 4	$^{151}\text{Dy}(17.9 \text{ m})$	386.10(19.4), 49.46(18.0), 546.31(14.3)
1016.6 6	0.209 18	$^{167}\text{Lu}(51.5 \text{ m})$	29.66(14.4), 239.22(8.6), 213.19(3.6)
• 1016.70 12	0.0037 5	$^{171}\text{Lu}(8.24 \text{ d})$	739.78(47.8), 19.394(13.7), 667.404(11.04)
• 1016.7 2	0.0136 19	$^{232}\text{Pa}(1.31 \text{ d})$	969.315(41.6), 894.351(19.8), 150.059(10.8)
1016.7 2		$^{232}\text{Np}(14.7 \text{ m})$	327.3(52), 819.187(33.3), 866.760(24.4)
1016.72 16	$\dagger 10.9 9$	$^{159}\text{Yb}(1.58 \text{ m})$	166.16($\dagger 500$), 177.12($\dagger 159$), 390.20($\dagger 113$)
1016.78 10	1.23 6	$^{146}\text{Pr}(24.15 \text{ m})$	453.88(48.0), 1523.7(15.6), 735.72(7.5)
1016.8 5	0.18 5	$^{96}\text{Rh}(9.90 \text{ m})$	832.57(100), 685.49(95.7), 631.71(74.5)
• 1016.8 6	0.019 9	$^{153}\text{Tb}(2.34 \text{ d})$	212.038(31.0), 170.504(6.8), 109.758(6.4)
1016.8 3	0.089 17	$^{153}\text{Dy}(6.4 \text{ h})$	80.723(11.10), 213.754(10.90), 99.659(10.51)
1016.8	0.035	$^{185}\text{Ir}(14.4 \text{ h})$	254.4(13.3), 1828.8(10), 60.0(5.7)
1016.8 4	0.57 5	$^{232}\text{Np}(14.7 \text{ m})$	327.3(52), 819.187(33.3), 866.760(24.4)
1016.9 2	0.66 9	$^{135}\text{Pr}(24 \text{ m})$	296.12(24), 82.64(13.7), 213.45(13.0)
1017.0	6.6 20	$^{23}\text{F}(2.23 \text{ s})$	1701.44(33.0), 2129.3(22), 1822.4(15.6)
• 1017.0 10	0.0007 4	$^{99}\text{Mo}(65.94 \text{ h})$	739.50(12.1), 181.063(6.08), 140.511(4.52)
1017.0 3	0.57 16	$^{130}\text{La}(8.7 \text{ m})$	357.4(81.0), 550.7(25.9), 908.0(17.0)
1017.0 5	0.40 4	$^{208}\text{At}(1.63 \text{ h})$	686.527(98), 660.040(89), 177.595(48.6)
• 1017.08 16	0.0172 21	$^{146}\text{Eu}(4.59 \text{ d})$	747.2(98), 633.03(43), 634.07(37)
1017.1 2	1.09 15	$^{156}\text{Tm}(83.8 \text{ s})$	344.55(86), 452.85(17.2), 585.93(14.6)
1017.1 3	$\dagger 1.6 4$	$^{171}\text{Hf}(12.1 \text{ h})$	122.0($\dagger 100$), 662.2($\dagger 83$), 347.18($\dagger 47$)
1017.2 3	$\dagger 3.2 7$	$^{153}\text{Yb}(4.2 \text{ s})$	547.4($\dagger 100$), 674.1($\dagger 61$), 369.6($\dagger 32$)
1017.29 6	0.0146 10	$^{166}\text{Tm}(7.70 \text{ h})$	778.817(18.9), 2052.36(17.2), 184.410(16.1)
1017.31 14	0.097 7	$^{141}\text{Cs}(24.94 \text{ s})$	48.53(7.90), 561.63(4.7), 1194.02(3.95)
• 1017.40 5	0.320 12	$^{125}\text{Sn}(9.64 \text{ d})$	1067.10(10), 1089.15(4.59), 822.48(4.28)
1017.40 5	0.097 19	$^{125}\text{Sn}(9.52 \text{ m})$	332.10(97.2), 1404.0(0.70), 589.6(0.20)
1017.47 10	0.32 3	$^{105}\text{Ru}(4.44 \text{ h})$	724.21(47), 469.37(17.5), 676.36(15.7)
• 1017.58 5	0.260 19	$^{169}\text{Lu}(34.06 \text{ h})$	960.622(23.4), 191.2137(20.6), 1449.74(9.92)
1017.58 11	0.119 16	$^{176}\text{Ta}(8.09 \text{ h})$	1159.28(25), 88.34(12), 1224.93(6)
1017.6 2		$^{102}\text{Ag}(7.7 \text{ m})$	556.52(48), 1834.7(9.8), 2054.4(6.6)
1017.6 1	0.222 25	$^{129}\text{La}(11.6 \text{ m})$	278.6(25), 110.5(16.9), 457.0(8.0)
1017.6		$^{157}\text{Eu}(15.18 \text{ h})$	63.929(23.0), 410.723(17.5), 370.509(11.0)
1017.66 14	6.3	$^{154}\text{Pm}(1.73 \text{ m})$	2057.76(17.1), 1393.9(14.4), 81.99(12.6)
1017.68 5	0.0144 5	$^{188}\text{Re}(16.98 \text{ h})$	155.032(14.9), 632.99(1.25), 477.99(1.0)
• 1017.68 5	1.06 9	$^{188}\text{Ir}(41.5 \text{ h})$	155.032(29.7), 2214.62(18.7), 632.99(18)
1017.7 3	0.10 2	$^{87}\text{Br}(55.60 \text{ s})$	1419.71(22.0), 1476.04(7.9), 1577.60(6.0)
1017.7 4	0.15 5	$^{108}\text{In}(39.6 \text{ m})$	632.96(76), 1986.8(12.4), 3452.2(9.2)
1017.7 3	0.090 11	$^{139}\text{Xe}(39.68 \text{ s})$	218.59(56), 296.53(21.7), 174.97(11.3)
1017.7	$\dagger 8.1 4$	$^{178}\text{Ir}(12 \text{ s})$	266.1($\dagger 100.0$), 131.6($\dagger 79$), 363.1($\dagger 39.9$)
1017.8 4	0.028 7	$^{79}\text{Rb}(22.9 \text{ m})$	688.1(23), 182.77(19.2), 143.41(13.9)
1017.8 2	0.15	$^{140}\text{Sm}(14.82 \text{ m})$	225.5(>10), 225.4(10), 140.0(5.0)
1017.8 5	0.26 6	$^{144}\text{La}(40.8 \text{ s})$	397.440(94.3), 541.20(39.2), 844.8(22.3)
• 1017.9 4	0.114 21	$^{147}\text{Gd}(38.06 \text{ h})$	229.32(63), 396.00(34.3), 929.01(20.2)
1017.91 18	$\dagger 1.70 23$	$^{188}\text{Au}(8.84 \text{ m})$	265.63($\dagger 100$), 340.04($\dagger 23.9$), 605.5($\dagger 16.3$)
1017.92 20	0.0059 13	$^{228}\text{Ac}(6.15 \text{ h})$	911.205(26.6), 968.971(16.2), 338.322(11.3)
1017.93 23	0.18 12	$^{86}\text{Y}(14.74 \text{ h})$	1076.64(83), 627.72(32.6), 1153.01(30.5)
• 1017.93 13	0.36 11	$^{206}\text{Po}(8.8 \text{ d})$	1032.26(32.9), 511.36(24.1), 286.410(23.8)
1017.999 110	0.0096 4	$^{145}\text{Pr}(5.984 \text{ h})$	748.278(0.5250), 675.795(0.514), 72.500(0.261)
1018.0 3	0.37 4	$^{118}\text{I}(13.7 \text{ m})$	605.71(86.0), 545.12(10.9), 600.71(10.2)
1018	0.00093 19	$^{155}\text{Sm}(22.3 \text{ m})$	104.3346(74.6), 245.771(3.7), 141.4428(1.98)

• $t_{1/2} > 1 \text{ d}$

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
1018.01 5	30 2	¹³⁰ Sb(6.3 m)	839.49(100), 793.53(86), 182.36(41)
1018.1 8	0.37	⁹⁷ Zr(16.91 h)	743.36(93), 507.64(5.03), 1147.97(2.61)
1018.1 4	13.0 13	¹¹³ Te(1.7 m)	814.4(22), 1181.0(12.3), 644.8(6.4)
1018.1 5	0.006 3	¹³³ I(20.8 h)	529.872(87.0), 875.329(4.51), 1298.223(2.35)
1018.1 4	0.10 5	¹⁸⁵ Au(4.25 m)	310.6(13), 243.1(6.6), 77.7(6)
1018.12 6	0.480 24	¹¹³ Sb(6.67 m)	497.96(80), 332.41(14.8), 88.25(2.7)
1018.14 13	>0.0011	²³⁹ U(23.45 m)	74.664(48), 43.533(4.14), 662.24(0.18)
1018.2 1	0.45 10	¹⁴⁰ Pm(5.95 m)	1028.19(100), 773.74(100), 419.57(92)
1018.2 5	0.15	¹⁴⁰ Sm(14.82 m)	225.5(>10), 225.4(10), 140.0(5.0)
1018.3 4	0.041 18	¹⁶¹ Er(3.21 h)	826.6(3.0), 211.15(12.2), 592.6(3.7)
1018.33 20	1.03 14	²⁴⁵ Pu(10.5 h)	327.428(25.4), 560.13(5.4), 308.222(4.9)
1018.36 10	0.69 6	¹⁵⁸ Tm(3.98 m)	192.13(62), 335.10(16.8), 1149.83(7.6)
1018.4 2	1.21 11	¹¹⁹ Cd(2.69 m)	292.9(36.8), 343.0(16.9), 1609.7(10.9)
1018.5 2	0.29 5	¹⁴⁰ Xe(13.60 s)	805.52(20), 1413.66(12.2), 1315.05(8.2)
• 1018.50 10	0.084 5	¹⁵⁶ Eu(15.19 d)	811.79(9.70), 88.9667(8.4), 1230.68(7.98)
1018.5 3	†0.23 5	¹⁶⁰ Ho(5.02 h)	728.18(†100), 879.383(†65.9), 962.317(†59.1)
1018.5 4	0.81 8	¹⁶¹ Yb(4.2 m)	78.20(34), 599.88(25.9), 631.45(13.9)
1018.5 10	0.122 23	¹⁷⁴ Ta(1.05 h)	206.50(58), 91.00(16.0), 1205.92(4.9)
1018.52 13	0.0595 22	⁷³ Se(7.15 h)	360.80(108), 67.03(78), 865.09(0.584)
1018.58 25	0.64 9	¹⁰¹ Mo(14.61 m)	191.92(19), 590.91(16.4), 1012.47(12.8)
1018.6 3	1.42 17	¹¹⁸ I(8.5 m)	605.71(99), 600.71(92), 614.42(65)
1018.6 3	0.22 3	²²⁸ Pa(22 h)	911.205(4.19), 463.005(1.250), 964.770(4.25)
• 1018.63 8	7.60 8	²⁰⁶ Bi(6.243 d)	803.10(99), 881.01(66.2), 516.18(40.7)
1018.65 5	0.140 22	⁷⁸ As(90.7 m)	613.725(54), 694.916(16.7), 1308.59(13.0)
1018.7 2	2.6 6	¹⁷⁶ Re(5.3 m)	240.17(48), 109.08(25.0), 848.7(4.0)
1018.77 19	0.51 10	¹⁸⁶ Ir(2.0 h)	137.155(27), 767.508(21.2), 630.354(18.0)
1018.8 3	0.50 6	²³⁰ Fr(19.1 s)	711.0(13.6), 129.1(11.0), 728.4(7.3)
1018.816 7	0.37 4	¹⁸⁴ Ta(8.7 h)	414.03(72), 252.848(43), 920.932(32.0)
• 1018.816 7	0.00113 27	¹⁸⁴ Re(38.0 d)	903.279(37.9), 792.071(37.5), 111.208(17.1)
• 1018.816 7	0.094 10	¹⁸⁴ Re(169 d)	252.848(10.7), 216.548(9.43), 920.932(8.14)
1018.85 25	†43	¹⁵⁴ Nd(25.9 s)	151.703(†800), 799.55(†600), 180.693(†510)
• 1018.89 5	0.0141 9	¹¹⁰ Ag(249.79 d)	657.7622(94.0), 884.685(72.2), 937.493(34.13)
1018.89 5	0.29	¹¹⁰ In(4.9 h)	657.7622(98.3), 884.685(92.9), 937.493(68.4)
1018.9 3	0.028 21	¹⁶² Tm(21.70 m)	102.00(17.5), 798.68(8.4), 227.52(7)
1018.93 21	0.13 4	¹⁸¹ Re(19.9 h)	365.57(56), 360.70(20), 639.30(6.4)
1018.99 17	0.0226 20	¹⁵¹ Tb(17.609 h)	287.357(28.3), 251.863(26.3), 108.088(24.3)
1019.0 2	0.148 17	⁹⁴ Rb(2.702 s)	1309.1(87), 836.9(87.10), 1577.5(31.8)
1019.0 4	0.45 9	¹⁵⁷ Tm(3.63 m)	455.00(9.3), 385.5(8.8), 348.40(8.4)
1019.02 4	0.044 6	⁵⁷ Mn(87.2 s)	122.0614(13.9), 14.41300(10.56), 692.03(5.50)
1019.1 2	0.016 4	¹¹⁹ I(19.1 m)	257.52(87), 635.86(2.69), 320.53(2.17)
1019.2 2	0.044 7	¹³⁷ Pr(1.28 h)	836.7(1.8), 433.9(1.28), 514.0(1.08)
1019.20 3	0.197 5	¹⁵⁹ Ho(33.05 m)	121.012(36.2), 131.973(23.6), 309.594(17.2)
1019.24 14	0.118 24	¹³³ Ce(4.9 h)	477.22(39), 510.36(20.7), 58.39(19.2)
1019.24 29	0.040 11	¹⁶⁴ Yb(75.8 m)	40.928(1.147), 675.41(0.38), 390.6(0.31)
1019.32 15	0.073	¹³⁷ I(24.5 s)	1218.00(12.8), 601.05(4.80), 1302.64(4.42)
1019.43 6	0.0022 5	¹²⁹ Te(69.6 m)	27.81(16.3), 459.60(7.70), 487.39(1.42)
• 1019.45 15	0.048 9	⁸³ Sr(32.41 h)	762.65(30), 381.53(14.1), 418.37(4.41)
1019.48 1	0.7	¹¹⁰ In(4.9 h)	657.7622(98.3), 884.685(92.9), 937.493(68.4)
• 1019.5 6	0.013 6	¹⁵³ Tb(2.34 d)	212.038(31.0), 170.504(6.8), 109.758(6.4)
1019.5 1	0.25	¹⁵⁴ Pm(1.73 m)	2057.76(17.1), 1393.9(14.4), 81.99(12.6)
1019.5 1	0.66	¹⁵⁴ Pm(2.68 m)	184.810(32), 81.99(15.4), 546.66(14.5)
1019.5 6	0.40 16	¹⁷⁵ Ta(10.5 h)	207.4(14.0), 348.5(12.0), 266.9(10.8)
1019.5 4	0.027 7	²³⁴ Pa(6.70 h)	131.30(18), 946.00(13.4), 883.24(9.6)
1019.54 12	0.0554 12	⁷³ Se(39.8 m)	67.03(2.59), 253.70(2.356), 84.0(2.03)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
1019.56	0.84 4	⁴⁴ K(22.13 m)	1157.031(58), 2150.76(22.7), 2518.95(9.69)
1019.58 13	0.115 8	¹⁴¹ Cs(24.94 s)	48.53(7.90), 561.63(4.7), 1194.02(3.95)
1019.61 8	$\dagger < 10$	²³⁸ Pa(2.3 m)	1015.3($\dagger < 100$), 1014.6($\dagger < 100$), 635.18($\dagger 88$)
1019.7 2	32 2	¹²³ In(5.98 s)	1130.5(63), 618.8(2.6), 845.5(1.3)
1019.7 7	0.56 21	¹⁶⁴ Tm(5.1 m)	208.08(14.6), 314.97(10), 240.49(7.5)
1019.7 10	0.19 4	²⁰¹ Bi(108 m)	629.1(24.0), 936.2(11.3), 1014.1(10.7)
• 1019.79 4	0.114 9	¹⁷² Lu(6.70 d)	1093.657(62.5), 900.724(29.8), 181.528(20.6)
1019.80 4	2.47 11	⁸¹ Ga(1.221 s)	216.47(37.4), 828.26(22.1), 711.18(17.6)
1019.8 5	0.161 12	¹²⁷ Ba(12.7 m)	180.8(12), 114.8(9.3), 66.06(2.12)
1019.8 5	0.050 20	¹⁶³ Yb(11.05 m)	860.28(10.1), 63.62(6.5), 123.21(1.98)
1019.8 3	0.025 7	²⁰¹ Pb(9.33 h)	331.19(79), 361.27(9.9), 945.96(7.4)
1019.86 10	0.022 4	²²⁸ Ac(6.15 h)	911.205(26.6), 968.971(16.2), 338.322(11.3)
1019.9 3	1.97 17	¹⁰⁶ Rh(131 m)	511.842(85), 1045.83(30.4), 717.24(28.9)
• 1019.9 3	1.04 16	¹⁰⁶ Ag(8.28 d)	511.842(88), 1045.83(29.6), 717.24(28.9)
1019.90 20	0.47 4	¹¹⁴ Sb(3.49 m)	1299.90(99), 887.60(17.4), 327.18(7.0)
1019.99 8	0.034 3	¹²¹ I(2.12 h)	212.189(84), 532.08(6.07), 598.74(1.47)
1020 1		⁶⁶ Co(0.23 s)	1424.8(100), 1246.0(98), 471.3(23)
1020.0 3	0.108 20	⁹⁵ Rb(377.5 ms)	352.02(49), 204.02(15.1), 680.7(14.8)
1020.0 3	0.47 8	¹⁰¹ Mo(14.61 m)	191.92(19), 590.91(16.4), 1012.47(12.8)
1020.0 10	0.040 24	¹²⁴ Cs(30.8 s)	353.9(40), 914.8(4.0), 492.6(3.6)
1020.0 6	0.011 6	²¹⁴ Bi(19.9 m)	609.312(44.8), 1764.494(15.36), 1120.287(14.80)
• 1020 1	$\dagger 0.0012 4$	²²⁷ Th(18.72 d)	235.971($\dagger 813$), 50.13($\dagger 528$), 256.25($\dagger 463$)
1020.04 5	34.0 8	⁴⁵ Ar(21.48 s)	3703.2(33.3), 61.35(25.0), 1808.38(13.2)
1020.1 2	0.29 6	¹⁰⁸ In(58.0 m)	875.46(100), 632.96(100), 242.84(41)
1020.1 4	$\dagger 0.77 22$	¹⁸⁸ Au(8.84 m)	265.63($\dagger 100$), 340.04($\dagger 23.9$), 605.5($\dagger 16.3$)
1020.2 3	$\dagger 2.6 5$	¹⁴² Xe(1.22 s)	571.83($\dagger 100$), 657.05($\dagger 79$), 538.24($\dagger 77$)
1020.3 12	0.8 3	⁴⁶ Ar(8.4 s)	1944.30(100), 288.1(0.7), 584.7(0.4)
1020.3 3	0.014 8	⁶⁶ Ge(2.26 h)	43.89(28.7), 381.85(28), 272.97(10.4)
1020.3 5	0.141 3	²⁰⁷ Po(5.80 h)	992.33(59.3), 742.64(28.2), 911.79(16.95)
1020.4 3	0.85 4	¹⁵¹ Dy(17.9 m)	386.10(19.4), 49.46(18.0), 546.31(14.3)
1020.4 6	0.29 4	¹⁵⁴ Tb(9.4 h)	123.071(30), 247.925(22.1), 540.18(20)
1020.41 10	0.58 15	¹²⁶ In(1.64 s)	1141.11(100), 908.58(99), 111.79(88)
1020.55 5	0.0238 5	¹²⁵ Xe(16.9 h)	188.418(54), 243.378(30.1), 54.968(6.81)
1020.6 5	0.0068 14	¹¹⁷ In(116.2 m)	158.562(16), 861.35(0.019), 1004.51(0.0062)
1020.6 5	0.103 17	¹¹⁷ Sb(2.80 h)	158.562(86), 861.35(0.31), 1004.51(0.21)
1020.75 15	2.17 16	⁸³ Se(70.1 s)	1030.86(21.2), 356.687(18), 987.96(16.1)
1020.75 17	$\dagger 2.7 6$	¹⁸³ Hg(9.4 s)	60.5($\dagger 100$), 159.91($\dagger 21$), 172.70($\dagger 17$)
1020.8 4	> 0.047	¹⁴² La(91.1 m)	641.285(47), 2397.8(13.3), 2542.7(10.00)
1020.8 1	0.265 25	¹⁴³ Cs(1.78 s)	195.554(13), 232.421(8.32), 306.424(6.80)
1020.89 10	18.9 6	¹²¹ Cd(8.3 s)	2059.41(21.0), 987.81(13.6), 1181.45(12.4)
1021.0 5	0.112 17	¹¹⁷ Sb(2.80 h)	158.562(86), 861.35(0.31), 1004.51(0.21)
1021.0 3	$\dagger 1.06 12$	¹²⁰ Cs(64 s)	322.4($\dagger 100$), 473.5($\dagger 30$), 553.4($\dagger 19.1$)
• 1021.00 20	0.00193 10	¹²³ Sn(129.2 d)	1088.64(0.6), 1030.23(0.0310), 160.33(0.00191)
1021.0 5	0.036 16	¹⁷⁶ Ta(8.09 h)	1159.28(25), 88.34(12), 1224.93(6)
1021 1	$\dagger < 10$	²³⁸ Pa(2.3 m)	1015.3($\dagger < 100$), 1014.6($\dagger < 100$), 635.18($\dagger 88$)
1021.05	0.030 15	¹⁵¹ Nd(12.44 m)	116.80(43.4), 255.68(16.4), 1180.89(14.8)
1021.05 11	0.074 15	¹⁵¹ Nd(12.44 m)	116.80(43.4), 255.68(16.4), 1180.89(14.8)
1021.08 20	0.043 5	¹¹⁵ Sb(32.1 m)	497.358(98), 489.27(1.3), 1236.52(0.58)
1021.13 8	2.81 6	¹³³ Te(12.5 m)	312.072(62), 407.63(27.1), 1333.21(10.67)
1021.2 4	1.2 3	⁷⁸ Ga(5.09 s)	619.40(77), 1186.42(20.1), 567.06(18.2)
1021.2 3	1.01 17	⁹⁷ Zr(16.91 h)	743.36(93), 507.64(5.03), 1147.97(2.61)
1021.2 2	0.035 12	¹⁴⁵ Ce(3.01 m)	724.33(59), 62.54(13.33), 1148.03(9.15)
1021.2 5	0.55 11	¹⁶⁶ Lu(2.65 m)	228.12(77.3), 337.50(41), 367.95(31.4)
1021.26 7	1.30 9	⁸⁷ Br(55.60 s)	1419.71(22.0), 1476.04(7.9), 1577.60(6.0)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
1021.4 5	0.0013 8	⁸² Rb(1.273 m)	776.517(13), 1395.139(0.471), 698.374(0.133)
1021.4 2	1.27 20	¹⁰⁴ In(1.8 m)	658.0(100), 834.1(99), 878.1(29.4)
1021.4 7	0.03 3	¹⁴⁶ Ba(2.22 s)	140.7(20.2), 251.2(19.6), 121.2(14.2)
1021.4 2	1.18 11	¹⁵² Pm(7.52 m)	244.6989(78), 121.7824(45), 340.48(31.3)
1021.4 3	0.073 12	¹⁶¹ Er(3.21 h)	826.6(3.0), 211.15(12.2), 592.6(3.7)
1021.4 4	0.073 12	¹⁶¹ Er(3.21 h)	826.6(3.0), 211.15(12.2), 592.6(3.7)
1021.4 5	0.010	²⁴⁹ Es(102.2 m)	379.5(40.4), 813.2(9.2), 375.1(3.3)
1021.5 2	0.033 14	¹⁰⁵ Cd(55.5 m)	961.84(4.69), 346.870(4.20), 1302.459(3.98)
1021.5 5	0.27 6	¹³⁶ Nd(50.65 m)	108.90(32), 40.2(18.9), 574.8(10.4)
1021.5 3	1.4	¹⁴⁵ La(24.8 s)	70.0(11), 355.8(3.8), 118.2(3.6)
1021.5 5	1.6 4	¹⁵¹ Ho(35.2 s)	527.4(63), 775.53(9.2), 209.5(5.69)
1021.5 5	0.18 3	²⁰⁹ Rn(28.5 m)	408.32(50.3), 745.78(22.8), 337.45(14.5)
1021.56 7	0.187 19	¹⁹⁵ Hg(9.9 h)	779.80(7), 61.46(6.2), 585.13(1.99)
1021.6 5	0.14 6	⁷⁷ Zn(2.08 s)	189.49(28.1), 473.94(19.7), 1832.0(12.4)
1021.6 8	>0.04	¹⁷⁵ Ta(10.5 h)	207.4(14.0), 348.5(12.0), 266.9(10.8)
1021.62 5	0.0054 3	¹³³ La(3.912 h)	278.835(2.50), 302.353(1.648), 290.06(1.413)
1021.67 12	0.87 5	²⁰⁷ At(1.80 h)	814.41(44.5), 588.33(19.2), 300.654(12.8)
1021.698	1.96 3	⁴³ K(22.3 h)	372.760(87), 617.490(79.2), 396.861(11.85)
1021.7	1.465 14	¹⁰ C(19.255 s)	718.3(98.53)
1021.7 2	>0.0011	⁴⁹ Cr(42.3 m)	90.639(53.20), 152.928(30.32), 62.289(16.39)
1021.77 17	†7.5 11	¹⁸¹ Pt(51 s)	289.29(†100), 111.97(†100), 230.15(†92)
1021.8 1	0.46 5	¹⁰⁴ Tc(18.3 m)	358.0(89), 530.5(15.6), 535.1(14.7)
1021.8 7	0.137 24	¹⁰⁷ In(32.4 m)	204.97(47), 505.51(11.9), 320.92(10.2)
1021.8	0.0026 10	¹⁴⁹ Nd(1.728 h)	211.309(25.9), 114.314(19.2), 270.166(10.7)
1021.8 2	0.14 3	²³⁴ Pa(6.70 h)	131.30(18), 946.00(13.4), 883.24(9.6)
1021.9 5	0.0059 5	⁷⁷ Ge(11.30 h)	264.44(54), 211.03(30.8), 215.50(28.6)
1021.9 7	0.08 3	⁹⁰ Rb(258 s)	831.69(94), 1375.36(16.7), 3317.00(14.4)
1021.90 20	2.3 5	¹⁰² Nb(4.3 s)	296.611(79), 1633.10(41), 551.54(30)
1021.9 2	4.2 6	¹¹⁸ Cs(14 s)	337.4(100), 472.8(37.4), 586.6(15.4)
1021.93 25	0.19 3	²⁰⁴ Bi(11.22 h)	899.15(98), 374.72(82), 984.02(59)
1022.0 10	0.007 3	¹¹¹ Pd(23.4 m)	580.00(0.8), 70.44(0.78), 1459.0(0.56)
1022.0 6	0.039 6	¹³⁹ Xe(39.68 s)	218.59(56), 296.53(21.7), 174.97(11.3)
1022.0 4	0.51 7	¹⁶¹ Yb(4.2 m)	78.20(34), 599.88(25.9), 631.45(13.9)
1022 1	0.47 11	¹⁶⁴ Tb(3.0 m)	168.838(25.4), 754.80(23.3), 215.07(21)
• 1022.06 6	0.078 6	¹⁵³ Tb(2.34 d)	212.038(31.0), 170.504(6.8), 109.758(6.4)
1022.07 6	0.80 7	¹⁷⁴ Ta(1.05 h)	206.50(58), 91.00(16.0), 1205.92(4.9)
1022.1 3	0.28 10	⁹⁹ Pd(21.4 m)	136.00(73), 263.60(15.2), 673.38(6.9)
1022.1 2	†4.0 10	¹³¹ Sn(56.0 s)	1226.03(†100), 450.03(†90), 798.50(†86)
1022.1 3	0.9 2	¹⁵⁰ Er(18.5 s)	475.8(100), 130.0(2.6), 1014.0(0.9)
1022.175 230.0556 21	0.0556 21	¹⁶⁶ Tm(7.70 h)	778.817(18.9), 2052.36(17.2), 184.410(16.1)
1022.2 3	0.27 14	⁹⁴ Tc(52.0 m)	871.082(94), 1868.68(5.7), 1522.11(4.5)
1022.2 5	0.076 9	¹¹⁵ Ag(20.0 m)	229.08(18), 212.80(4.4), 472.70(4.0)
1022.24 12	0.39 3	¹³³ Ce(4.9 h)	477.22(39), 510.36(20.7), 58.39(19.2)
• 1022.370 211.41 4	211.41 4	¹⁷² Lu(6.70 d)	1093.657(62.5), 900.724(29.8), 181.528(20.6)
1022.4 3	0.22 8	¹⁰⁵ Mo(35.6 s)	85.4(25.0), 76.50(19.3), 147.8(14.8)
1022.4 4	0.11	¹⁵⁴ Pm(1.73 m)	2057.76(17.1), 1393.9(14.4), 81.99(12.6)
1022.4 3	0.39 5	¹⁸¹ Au(11.4 s)	198.60(4.4), 2022.4(4.2), 79.40(4.2)
1022.43 5	0.00069 8	¹²⁹ Te(69.6 m)	27.81(16.3), 459.60(7.70), 487.39(1.42)
• 1022.43 5	0.0173 9	¹²⁹ Te(33.6 d)	695.88(2.988), 729.57(0.70), 556.65(0.118)
• 1022.46 4	0.0090 5	¹⁴⁷ Eu(24.1 d)	197.299(27), 121.220(22.9), 677.516(9.8)
1022.5 3	4.9 6	¹⁰⁰ Nb(1.5 s)	535.60(45.7), 528.24(9.1), 159.547(8.8)
1022.5 5	0.14 8	¹¹¹ Pd(5.5 h)	70.44(8.3), 391.25(5.4), 632.80(3.6)
• 1022.5 2	0.049 7	¹⁴⁶ Eu(4.59 d)	747.2(98), 633.03(43), 634.07(37)
1022.6 5	0.23	¹⁴⁰ Sm(14.82 m)	225.5(>10), 225.4(10), 140.0(5.0)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
1022.6 10	$\dagger 2.6$ 9	$^{191}\text{Tl}(5.22 \text{ m})$	452.6($\dagger 100$), 470.1($\dagger 98$), 391.6($\dagger 96$)
1022.627 8	0.63 4	$^{184}\text{Ta}(8.7 \text{ h})$	414.03(72), 252.848(43), 920.932(32.0)
• 1022.627 8	0.52 3	$^{184}\text{Re}(38.0 \text{ d})$	903.279(37.9), 792.071(37.5), 111.208(17.1)
• 1022.627 8	0.180 16	$^{184}\text{Re}(169 \text{ d})$	252.848(10.7), 216.548(9.43), 920.932(8.14)
1022.7 2	0.40 5	$^{74}\text{Br}(46 \text{ m})$	634.78(91), 728.37(35.6), 634.26(16.4)
1022.7 3	2.2	$^{101}\text{Cd}(1.2 \text{ m})$	98.0(47), 1722.5(11), 1259.3(8)
1022.7 2	$\dagger 3.6$ 4	$^{104}\text{Nb}(0.92 \text{ s})$	192.2($\dagger 100$), 368.4($\dagger 20$), 620.2($\dagger 19.2$)
1022.7	0.26	$^{147}\text{Ba}(0.893 \text{ s})$	167.4(11), 105.2(4.8), 196.1(4.8)
1022.7 4	$\dagger 15.2$ 7	$^{170}\text{Ho}(43 \text{ s})$	812.3($\dagger 100.0$), 1894.5($\dagger 45.2$), 78.6($\dagger 40$)
1022.7 5	$\dagger 4.9$	$^{177}\text{Os}(2.8 \text{ m})$	84.7($\dagger 100$), 125.4($\dagger 63$), 195.8($\dagger 61$)
1022.74 10	5.19 19	$^{74}\text{Br}(25.4 \text{ m})$	634.78(64), 219.05(18.1), 634.26(14.1)
1022.78	0.0201 14	$^{42}\text{K}(12.360 \text{ h})$	1524.70(18), 312.6(0.336), 899.43(0.0515)
1022.78 3	0.104 8	$^{149}\text{Nd}(1.728 \text{ h})$	211.309(25.9), 114.314(19.2), 270.166(10.7)
1022.80 30	0.74 10	$^{115}\text{Te}(5.8 \text{ m})$	723.569(30), 1380.58(23.0), 1326.83(22.7)
1022.8 5	4.40 22	$^{199}\text{Bi}(27 \text{ m})$	560.1(22.0), 424.85(22), 841.7(11)
1022.9 5	0.56 9	$^{104}\text{Ag}(69.2 \text{ m})$	555.796(92.6), 767.72(65.7), 941.7(25.0)
1022.9 6	0.11 3	$^{150}\text{Pm}(2.68 \text{ h})$	333.971(68), 1324.51(17.5), 1165.739(15.8)
1022.9 2	0.0109 21	$^{167}\text{Yb}(17.5 \text{ m})$	113.34(55.3), 106.18(22.5), 176.25(21)
1022.96 16	0.049 10	$^{110}\text{In}(69.1 \text{ m})$	657.7622(98), 2129.53(2.13), 2211.49(1.76)
1023.0 3	0.69 12	$^{93}\text{Ru}(10.8 \text{ s})$	1396.2(39), 1111.2(26.2), 2039.1(9.2)
1023.0 2	0.13 3	$^{146}\text{Ba}(2.22 \text{ s})$	140.7(20.2), 251.2(19.6), 121.2(14.2)
• 1023 1	0.0067 18	$^{154}\text{Eu}(8.593 \text{ y})$	123.071(40.79), 1274.436(35.19), 723.304(20.22)
1023.0 3	0.102 17	$^{191}\text{Au}(3.18 \text{ h})$	586.45(17), 277.88(7.2), 674.19(6.8)
1023.0 2	$\dagger 2.40$ 25	$^{201}\text{Po}(15.3 \text{ m})$	890.1($\dagger 100$), 240.1($\dagger 71.0$), 904.2($\dagger 54.8$)
1023.05 7	2.7	$^{176}\text{Ta}(8.09 \text{ h})$	1159.28(25), 88.34(12), 1224.93(6)
1023.1 3	$\dagger 2.6$ 7	$^{83}\text{Ge}(1.85 \text{ s})$	306.51($\dagger 100.0$), 1193.77($\dagger 20.5$), 1525.50($\dagger 13.6$)
1023.1 2	97.4 40	$^{120}\text{In}(47.3 \text{ s})$	1171.3(100), 197.3(80.6), 89.9(77.6)
1023.1 2	55 12	$^{120}\text{In}(46.2 \text{ s})$	1171.3(96), 863.7(32.5), 1294.5(12.2)
• 1023.1 2	99.4 3	$^{120}\text{Sb}(5.76 \text{ d})$	1171.3(100), 197.3(87.0), 89.9(79.5)
1023.1 3	0.108 22	$^{167}\text{Lu}(51.5 \text{ m})$	29.66(14.4), 239.22(8.6), 213.19(3.6)
1023.1 3	0.58 5	$^{236}\text{Pa}(9.1 \text{ m})$	642.35(37.0), 687.59(9.9), 1762.7(6.0)
1023.18 7	4.8 4	$^{148}\text{Pr}(2.27 \text{ m})$	301.702(61), 1357.78(5.5), 721.43(4.3)
1023.20 12	0.44 4	$^{91}\text{Rb}(58.4 \text{ s})$	93.628(33.7), 2564.19(12.5), 3599.67(10.4)
1023.2 1	0.26 3	$^{109}\text{Ru}(34.5 \text{ s})$	206.29(22.0), 225.98(19.6), 1929.05(13.7)
1023.2 3	0.58 6	$^{118}\text{I}(13.7 \text{ m})$	605.71(86.0), 545.12(10.9), 600.71(10.2)
1023.2 3		$^{118}\text{I}(8.5 \text{ m})$	605.71(99), 600.71(92), 614.42(65)
1023.2 1	0.147 14	$^{141}\text{Pm}(20.90 \text{ m})$	1223.26(4.74), 886.22(2.44), 193.68(1.61)
1023.2 7	0.61 14	$^{176}\text{Tm}(1.9 \text{ m})$	189.57(44.5), 1069.3(34), 381.8(21.8)
1023.28 14	0.285 17	$^{163}\text{Yb}(11.05 \text{ m})$	860.28(10.1), 63.62(6.5), 123.21(1.98)
1023.3 3	0.33 5	$^{120}\text{Xe}(40 \text{ m})$	25.1(30), 72.6(9), 178.1(6.8)
1023.3 2	92.0 30	$^{142}\text{Eu}(1.22 \text{ m})$	768.1(100), 556.6(86.6), 1016.1(11.0)
1023.3 3	$\dagger 6.5$ 20	$^{155}\text{Nd}(8.9 \text{ s})$	180.574($\dagger 100$), 418.99($\dagger 75$), 955.08($\dagger 50$)
1023.3 4	$\dagger 0.57$ 24	$^{189}\text{Hg}(7.6 \text{ m})$	320.99($\dagger 100$), 78.21($\dagger 63$), 565.42($\dagger 48$)
1023.32 20	0.54 10	$^{245}\text{Pu}(10.5 \text{ h})$	327.428(25.4), 560.13(5.4), 308.222(4.9)
1023.44 7	0.040 5	$^{246}\text{Am}(25.0 \text{ m})$	1078.86(27.7), 798.80(25), 1062.04(17.1)
• 1023.44 7	0.15 2	$^{246}\text{Bk}(1.80 \text{ d})$	798.80(61), 1081.40(5.8), 833.60(5.0)
1023.5 10	1.2 3	$^{98}\text{Ag}(46.7 \text{ s})$	863.1(100), 678.5(85), 570.93(53)
• 1023.6 2	0.081 10	$^{131}\text{Te}(30 \text{ h})$	773.67(49.9), 852.21(27.0), 793.75(18.10)
1023.6 2	2.0 9	$^{232}\text{Ac}(119 \text{ s})$	665.0(15.3), 1899(8.9), 1959(5.4)
1023.6 2	0.062 21	$^{234}\text{Pa}(6.70 \text{ h})$	131.30(18), 946.00(13.4), 883.24(9.6)
1023.7 6	0.12 5	$^{103}\text{Cd}(7.3 \text{ m})$	1461.81(12), 1448.70(5.55), 1079.90(5.44)
1023.73 3	6.1 7	$^{98}\text{Nb}(2.86 \text{ s})$	787.374(13), 1432.22(3.4), 644.830(3.4)
1023.73 3	1.02 7	$^{98}\text{Nb}(51.3 \text{ m})$	787.374(93), 722.645(73.8), 1168.830(17.8)
1023.8 6	0.7 3	$^{166}\text{Lu}(1.41 \text{ m})$	228.12(15), 102.38(13), 285.07(11.0)

• $t_{1/2} > 1 \text{ d}$

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
1023.9 10	0.46 11	⁷⁷ Rb(3.75 m)	66.52(57), 178.99(22.2), 393.37(9.7)
1023.9 3	1.11 13	¹²¹ Xe(40.1 m)	252.7(13), 132.8(10.9), 445.2(7.7)
1023.99 4	1.09 6	¹⁵³ Dy(6.4 h)	80.723(11.10), 213.754(10.90), 99.659(10.51)
1024 1	0.28 2	⁸⁷ Zr(1.68 h)	1227(1.0), 1209.8(0.33), 793.60(0.10)
• 1024.00 25	8.0×10^{-5} 4	¹²¹ Te(154 d)	1102.149(2.54), 37.138(0.94), 998.291(0.0796)
1024.00 18	0.027 6	¹⁵⁵ Dy(9.9 h)	226.918(68.4), 184.564(3.37), 1089.8(>2.8)
1024.04 10	3.79 17	⁸⁶ Y(14.74 h)	1076.64(83), 627.72(32.6), 1153.01(30.5)
1024.05 30	0.164 21	¹⁴⁰ Cs(63.7 s)	602.345(71.1), 908.25(11.6), 1200.25(6.39)
1024.1 3	0.99 13	¹⁰⁰ Cd(49.1 s)	936.55(66), 139.71(6.7), 582.5(6.3)
1024.1 3	†12	¹⁵⁴ Nd(25.9 s)	151.703(†800), 799.55(†600), 180.693(†510)
1024.1 3	0.41 6	¹⁸³ Ir(58 m)	392.52(10.4), 228.70(6.9), 87.67(5.6)
1024.13 6	0.73 5	¹⁵⁰ Pm(2.68 h)	333.971(68), 1324.51(17.5), 1165.739(15.8)
1024.2 2	0.55 5	⁹² Ru(3.65 m)	213.81(96), 259.32(92), 134.57(65.5)
1024.25	0.12	²⁰³ Bi(11.76 h)	820.3(30), 825.2(14.6), 896.9(13)
1024.3 5	>0.14	⁷⁴ Ga(8.12 m)	595.847(91), 2353.46(44.5), 608.353(14.3)
1024.3 1	33	⁹¹ Sr(9.63 h)	749.8(23.61), 652.9(8.0), 925.8(3.84)
1024.3 3	0.11	¹⁵⁴ Pm(1.73 m)	2057.76(17.1), 1393.9(14.4), 81.99(12.6)
1024.3 3	<0.54	¹⁵⁴ Pm(2.68 m)	184.810(32), 81.99(15.4), 546.66(14.5)
1024.3 3	1.43 7	¹⁷⁰ Ho(2.76 m)	258.2(37.0), 931.3(36.1), 181.6(23.8)
1024.317 240.244 5		¹⁵⁹ Ho(33.05 m)	121.012(36.2), 131.973(23.6), 309.594(17.2)
1024.4 2	†4.0 7	¹³¹ Ce(10.3 m)	169.42(†100), 414.25(†68), 119.18(†44)
1024.4 13	>0.35	¹⁷⁹ Yb(8.0 m)	592.1(75), 612.3(35.4), 381.4(9.6)
1024.4 7	0.43 7	²⁰¹ Bi(108 m)	629.1(24.0), 936.2(11.3), 1014.1(10.7)
1024.4 10	0.26 5	²²⁸ Fr(39 s)	473.7(10.2), 474.0(7.6), 410.40(6.3)
1024.49 11	1.09 7	⁹⁷ Nb(72.1 m)	658.08(98), 1268.68(0.148), 1515.59(0.122)
1024.5 1	0.164 13	¹⁴³ Cs(1.78 s)	195.554(13), 232.421(8.32), 306.424(6.80)
1024.5 4	†6.8 5	¹⁶⁸ Re(4.4 s)	199.3(†100), 363.2(†95), 479.8(†62.8)
1024.54 24	0.48 6	¹⁸⁶ Ir(2.0 h)	137.155(27), 767.508(21.2), 630.354(18.0)
1024.6 5	0.14 3	⁷⁴ Ga(8.12 m)	595.847(91), 2353.46(44.5), 608.353(14.3)
1024.6 3	0.9 4	¹²² Cs(4.5 m)	331.1(94), 497.1(79), 638.5(63)
1024.6 3	†0.27 3	¹⁹⁶ Ir(1.40 h)	393.346(†105.2), 521.175(†104), 447.1(†102.1)
1024.6 2	0.13 5	²⁰⁷ At(1.80 h)	814.41(44.5), 588.33(19.2), 300.654(12.8)
1024.64 5	0.0170 6	¹²⁷ Cs(6.25 h)	411.95(62.8), 124.70(11.37), 462.31(5.07)
1024.7 2	0.26 5	¹⁴⁰ Xe(13.60 s)	805.52(20), 1413.66(12.2), 1315.05(8.2)
• 1024.7 6	0.016 9	¹⁵³ Tb(2.34 d)	212.038(31.0), 170.504(6.8), 109.758(6.4)
1024.7 2	†0.29 5	¹⁵⁸ Ho(11.3 m)	218.21(†100.0), 98.91(†70), 945.7(†37)
1024.70 6	0.044 4	¹⁸³ Os(13.0 h)	381.768(89.6), 114.463(20.63), 167.844(8.81)
1024.7 3	†0.82 21	¹⁹⁴ Bi(92 s)	965.4(†100.0), 575.1(†98.0), 280.1(†73.7)
1024.71	6.67 12	⁴⁴ K(22.13 m)	1157.031(58), 2150.76(22.7), 2518.95(9.69)
1024.9 4	1.52 11	¹³⁹ Nd(5.50 h)	113.94(40), 737.96(35), 982.2(26.4)
1024.9 19	0.14 5	¹⁸⁰ Re(2.44 m)	902.795(90), 103.557(22.2), 825.357(9.9)
1024.91 15	2.87 22	⁹¹ Kr(8.57 s)	108.788(43.5), 506.592(19.1), 612.87(7.7)
1025.0 5	3.4 7	⁵² Sc(8.2 s)	1049.7(98), 1267.9(39), 1032.3(13.7)
1025		⁹² Br(0.343 s)	769(†100), 1446(†10), 1035(†6)
1025.0 3	4.2 4	¹⁰² Ag(12.9 m)	556.52(91), 719.40(58), 1744.99(17.3)
1025.0 1	24.8 12	¹¹⁹ Cd(2.20 m)	2021.3(22.6), 720.7(17.9), 1203.7(13.4)
1025.0 15	0.86 19	¹⁹⁶ Tl(1.84 h)	426.0(84), 610.5(11.9), 635.5(9.8)
1025 1	0.00015	²²³ Fr(21.8 m)	50.13(36.0), 79.72(9.1), 234.81(3.0)
• 1025 1	†0.0010 3	²²⁷ Th(18.72 d)	235.971(†813), 50.13(†528), 256.25(†463)
1025.03 13	0.134 9	¹⁴¹ Cs(24.94 s)	48.53(7.90), 561.63(4.7), 1194.02(3.95)
1025.08 16	0.008 4	⁸¹ Rb(4.576 h)	190.38(64.0), 446.15(23.2), 510.31(5.3)
1025.09 5	0.465 24	⁷⁹ Ga(2.847 s)	464.79(24.2), 516.41(21.5), 1187.28(12.8)
1025.11 17	12.4 7	⁷⁸ Ga(5.09 s)	619.40(77), 1186.42(20.1), 567.06(18.2)
1025.12 4	0.201 6	¹⁵¹ Tb(17.609 h)	287.357(28.3), 251.863(26.3), 108.088(24.3)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
1025.2 2	0.034 7	¹⁰⁰ Tc(15.8 s)	539.59(7), 590.83(5.7), 1512.1(0.44)
1025.2 2	0.031 16	¹⁰⁰ Rh(20.8 h)	539.59(78.4), 2376.1(35.3), 1553.4(21)
1025.3 5	0.23 8	⁸⁹ Rb(15.15 m)	1031.94(58), 1248.19(42.6), 2196.02(13.3)
• 1025.30 10	0.043 4	²⁰⁶ Bi(6.243 d)	803.10(99), 881.01(66.2), 516.18(40.7)
1025.3 2	0.052 21	²³⁴ Pa(6.70 h)	131.30(18), 946.00(13.4), 883.24(9.6)
• 1025.377 113.1×10 ⁻⁵ 21	¹⁶⁸ Tm(93.1 d)	198.241(52.39), 815.990(48.99), 447.515(23.05)	
1025.4 2	0.80 8	²³⁰ Fr(19.1 s)	711.0(13.6), 129.1(11.0), 728.4(7.3)
1025.5 1	0.19 2	¹⁰⁷ Tc(21.2 s)	102.70(21.0), 177.00(9.2), 106.31(7.6)
1025.5 4	0.15 7	¹⁸⁵ Au(4.25 m)	310.6(13), 243.1(6.6), 77.7(6)
1025.54 24	0.43 3	⁹⁹ Nb(2.6 m)	97.785(7), 253.50(3.64), 2641.3(3.64)
1025.6 3	0.23 9	¹⁵⁷ Tm(3.63 m)	455.00(9.3), 385.5(8.8), 348.40(8.4)
1025.7 4		¹⁶⁸ Lu(6.7 m)	198.82(28), 979.22(20), 896.12(15)
• 1025.72 7	0.084 12	¹⁶⁹ Lu(34.06 h)	960.622(23.4), 191.2137(20.6), 1449.74(9.92)
• 1025.73 10	0.151 10	⁷⁹ Kr(35.04 h)	261.29(13), 397.54(9.3), 606.09(8.12)
1025.73 11	†2.8 3	¹⁴⁴ Cs(1.01 s)	199.326(†100.0), 639.00(†21.2), 758.96(†20.6)
1025.8 4	2.3 3	¹¹⁰ Sb(23.0 s)	1211.87(92), 985.03(31.2), 1243.6(13.4)
• 1025.87 2	9.6 5	²³⁸ Np(2.117 d)	984.45(27.8), 1028.54(20.3), 923.98(2.86)
1025.9 3	0.0045 16	¹⁶⁷ Yb(17.5 m)	113.34(55.3), 106.18(22.5), 176.25(21)
1025.96 76	0.10 5	¹⁴¹ Xe(1.73 s)	909.23(24.0), 118.705(16.1), 105.937(9.8)
1026.0 2	<0.11	¹⁶² Tm(21.70 m)	102.00(17.5), 798.68(8.4), 227.52(7)
1026.05 10	0.164 16	²³⁰ Ac(122 s)	454.95(8), 508.20(5.15), 1243.9(3.50)
• 1026.05 10	1.46 7	²³⁰ Pa(17.4 d)	951.95(1.65), 918.48(8.2), 454.95(6.27)
1026.19 5	2.17 12	⁹³ Kr(1.286 s)	253.42(41.2), 323.89(24.1), 266.83(20.6)
1026.25 10	0.00277 20	¹⁶¹ Gd(3.66 m)	360.94(0.59), 314.92(22.7), 102.315(13.9)
• 1026.27 6	0.0054 24	¹⁷² Tm(63.6 h)	78.7435(6.5), 1093.657(6.0), 1387.093(5.6)
• 1026.27 6	0.067 4	¹⁷² Lu(6.70 d)	1093.657(62.5), 900.724(29.8), 181.528(20.6)
1026.29 10	0.80 7	²⁰⁶ At(30.0 m)	700.66(98), 477.10(86), 395.54(48)
1026.30 20	0.50 4	⁸⁸ Nb(7.8 m)	1057.01(89.3), 1082.53(53.9), 399.41(45.7)
1026.34 24	†7.4 7	¹⁸² Au(21 s)	154.76(†100), 264.33(†40.0), 855.41(†14.5)
1026.35 20	5.30 21	¹⁰⁹ Sn(18.0 m)	1099.4(30), 649.90(28.0), 1321.3(11.9)
1026.4 3	1.14 23	⁷⁵ Rb(19.0 s)	178.98(<63), 178.97(>51), 187.21(8.7)
1026.4 2	5.30 21	¹⁰⁹ Sn(18.0 m)	1099.4(30), 649.90(28.0), 1321.3(11.9)
1026.4 2	0.16 4	¹⁵⁷ Er(18.65 m)	53.05(24), 391.32(14.2), 121.57(10.1)
1026.43 14	0.292 21	¹¹¹ Sn(35.3 m)	1152.98(2.7), 1914.70(1.99), 761.97(1.48)
1026.46 4	1.80 6	⁸⁹ Br(4.40 s)	1097.82(6.00), 997.93(4.26), 953.53(4.26)
1026.49 5	1.55 10	¹⁰⁹ Ru(34.5 s)	206.29(22.0), 225.98(19.6), 1929.05(13.7)
1026.5 1	7.6 7	¹¹⁹ Ag(2.1 s)	626.4(13), 366.2(12.1), 399.1(10.9)
1026.50 22	0.19 3	¹⁵³ Dy(6.4 h)	80.723(11.10), 213.754(10.90), 99.659(10.51)
1026.5 4	†1.0 5	¹⁷¹ Hf(12.1 h)	122.0(†100), 662.2(†83), 347.18(†47)
1026.5 2	100	²⁰⁰ Bi(36.4 m)	462.34(98), 419.70(91), 245.154(46)
1026.5 2	†110 6	²⁰⁰ Bi(31 m)	462.34(†45.7), 419.70(†26.0), 245.154(†5.6)
1026.5 10	0.0081	²³³ Th(22.3 m)	86.477(2.7), 29.374(2.5), 459.222(1.4)
• 1026.512 170.312 8	⁷¹ As(65.28 h)	174.954(82.00), 1095.490(4.08), 499.876(3.624)	
1026.6 10	0.008 4	¹¹¹ Pd(23.4 m)	580.00(0.8), 70.44(0.78), 1459.0(0.56)
1026.6 3	†1.29 24	¹⁸⁹ Hg(7.6 m)	320.99(†100), 78.21(†63), 565.42(†48)
1026.7 5	0.65 20	⁹⁶ Pd(122 s)	124.70(65), 762.3(50.0), 499.7(17.9)
1026.7 8	0.28	⁹⁷ Zr(16.91 h)	743.36(93), 507.64(5.03), 1147.97(2.61)
1026.71 8	1.22 5	¹⁸⁶ Ir(16.64 h)	296.911(64.0), 137.155(42), 434.849(34.4)
1026.74 5	0.27 5	¹⁸⁹ Pt(10.87 h)	721.41(9.3), 94.33(7.6), 568.84(7.1)
1026.8 3	0.108 11	⁸⁵ Y(4.86 h)	231.67(22.8), 2123.8(5.0), 767.40(3.6)
1026.8 2	0.056 19	¹³³ Te(12.5 m)	312.072(62), 407.63(27.1), 1333.21(10.67)
• 1026.8 2	0.0015 5	¹⁷¹ Lu(8.24 d)	739.78(47.8), 19.394(13.7), 667.404(11.04)
1026.8 3	0.11 4	²⁰⁵ Po(1.66 h)	872.39(37), 1001.21(28.8), 849.83(25.5)
1026.83 3	5.5 3	¹³³ Sb(2.5 m)	1096.22(43.0), 817.8(18.5), 2755(12.5)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
1026.87 6	0.07 4	¹⁸⁹ Pt(10.87 h)	721.41(9.3), 94.33(7.6), 568.84(7.1)
1026.91 15	1.30 15	¹⁸⁴ Au(53.0 s)	162.97(50), 272.98(40), 362.47(17.5)
1026.99 6	0.071 16	²⁰⁴ Bi(11.22 h)	899.15(98), 374.72(82), 984.02(59)
1027 2	0.00011 3	⁴⁹ Cr(42.3 m)	90.639(53.20), 152.928(30.32), 62.289(16.39)
1027 2	9.1	⁵⁰ K(472 ms)	4030(2.6), 4880(1.5), 3005(1.3)
1027 2	†130 11	⁵¹ K(365 ms)	1973(†45)
1027.0 1	0.43 12	¹³⁴ Te(41.8 m)	767.20(29.0), 210.465(22.3), 277.951(20.9)
1027.08 15	0.91 7	¹⁶² Tm(21.70 m)	102.00(17.5), 798.68(8.4), 227.52(7)
• 1027.091 120.061 17		²⁰⁰ Tl(26.1 h)	367.943(87), 1205.717(29.9), 579.298(13.8)
1027.1 4	0.12 3	⁹⁰ Rb(258 s)	831.69(94), 1375.36(16.7), 3317.00(14.4)
1027.1 4	0.014 2	⁹⁰ Rb(158 s)	831.69(28), 1060.70(6.69), 4365.90(5.6)
1027.1 2	5.7 3	¹⁵⁴ Ho(11.76 m)	334.6(84), 412.4(15.0), 873.4(12.5)
1027.11 7	0.023 5	¹⁶⁸ Ho(2.99 m)	741.356(36.6), 821.164(34.5), 815.990(18.6)
1027.18 4	0.0088 16	¹⁴⁹ Nd(1.728 h)	211.309(25.9), 114.314(19.2), 270.166(10.7)
1027.2 2	0.018 9	¹⁴⁹ Tb(4.118 h)	352.24(29.43), 164.98(26.4), 388.57(18.37)
1027.2 2	†4.5 4	¹⁸⁵ Hg(21.6 s)	222.8(†100.0), 258.7(†98), 212.5(†58)
1027.2 5	0.27 5	²²⁸ Fr(39 s)	473.7(10.2), 474.0(7.6), 410.40(6.3)
1027.3 3	0.011 4	⁸⁸ Rb(17.78 m)	1836.063(21.40), 898.042(14.04), 2677.892(1.96)
1027.3 2	†3	¹³⁹ I(2.29 s)	527.7(†100), 571.2(†98), 536.6(†67)
1027.3 4	2.0 5	¹⁴⁸ Er(4.6 s)	1311.8(8.9), 244.0(7.1), 315.3(6.9)
1027.33 8	0.09 5	⁶⁰ Cu(23.7 m)	1332.501(88), 1791.6(45.4), 826.06(21.7)
• 1027.39 8	0.128 5	¹⁵⁶ Eu(15.19 d)	811.79(9.70), 88.9667(8.4), 1230.68(7.98)
1027.4 2		¹⁰⁶ In(6.2 m)	632.66(100), 861.16(92), 997.87(48)
1027.4 2	0.54 12	¹⁰⁸ Tc(5.17 s)	242.25(82), 465.6(14.3), 707.81(11.4)
• 1027.4 2	0.040 7	¹⁴⁶ Eu(4.59 d)	747.2(98), 633.03(43), 634.07(37)
1027.4 1	†1.80 18	¹⁷¹ Ta(23.3 m)	49.6(†100), 506.4(†54), 501.8(†22.6)
1027.42 11	42.7 22	⁶¹ Fe(5.98 m)	1205.07(44), 297.90(22.2), 1645.95(7.0)
1027.45 15	22.6 15	¹²³ Cd(1.82 s)	1165.86(25.7), 2102.81(12.5), 2601.98(12.0)
• 1027.45 15	0.114 13	¹⁹⁵ Hg(41.6 h)	261.75(30.9), 560.27(7), 387.87(2.15)
1027.53 8	25.8 15	¹²⁵ Cd(0.57 s)	1173.16(25.1), 736.65(12.6), 2392.43(9.4)
1027.55 20	0.18 4	²⁰⁹ Rn(28.5 m)	408.32(50.3), 745.78(22.8), 337.45(14.5)
1027.662 2416.8 7		²⁰⁸ At(1.63 h)	686.527(98), 660.040(89), 177.595(48.6)
1027.7	0.47	¹⁴⁷ Tb(1.83 m)	1397.0(79), 1797.1(14), 1643.0(1.2)
• 1027.8 4	0.010 5	¹³¹ Te(30 h)	773.67(49.9), 852.21(27.0), 793.75(18.10)
1027.9 3	0.203 23	⁹⁶ Rb(0.199 s)	815.0(78.00), 692.0(8.0), 813.2(7.0)
1027.9 2	0.14 5	¹⁵⁵ Ho(48 m)	240.19(12.5), 136.30(5.00), 45.38(5)
1028.0 3	†2.3 6	¹⁰³ Nb(1.5 s)	102.64(†100), 641.1(†55), 538.5(†34.0)
1028 1	>0.35	¹³⁷ Pm(2.4 m)	177.5(40.29), 108.6(35), 233.6(29.57)
1028.0 3	0.119 17	¹⁹¹ Au(3.18 h)	586.45(17), 277.88(7.2), 674.19(6.8)
1028.1 2	0.64 3	¹⁷⁷ Yb(1.911 h)	150.392(20.3), 1080.21(5.6), 1241.2(3.47)
1028.11 4	0.0390 16	¹³⁰ I(9.0 m)	536.09(16), 586.05(1.07), 1614.10(0.447)
1028.11 4	0.017 8	¹³⁰ Cs(29.21 m)	536.09(3.8), 586.05(0.47), 894.5(0.39)
1028.16 11	0.57 5	¹⁵⁷ Sm(482 s)	197.870(56.00), 196.461(16.8), 394.351(11.93)
1028.19 7	100 2	¹⁴⁰ Pm(5.95 m)	773.74(100), 419.57(92), 1197.5(3.8)
1028.2 2	†2.86 17	⁹⁵ Pd(13.3 s)	1350.9(†105), 716.6(†70.63), 381.8(†50.8)
1028.2 10	0.017 7	²⁴⁵ Pu(10.5 h)	327.428(25.4), 560.13(5.4), 308.222(4.9)
1028.25 7	1.22 10	¹⁴¹ Xe(1.73 s)	909.23(24.0), 118.705(16.1), 105.937(9.8)
1028.3 3	0.65 13	⁹¹ Kr(8.57 s)	108.788(43.5), 506.592(19.1), 612.87(7.7)
1028.3 5	0.0070 10	²⁴⁰ Np(7.22 m)	554.60(20.9), 597.40(11.7), 1496.9(1.33)
1028.4 4	0.42 9	¹⁷⁵ Ta(10.5 h)	207.4(14.0), 348.5(12.0), 266.9(10.8)
1028.4 5	†6.6 17	²³³ Pu(20.9 m)	235.4(†100), 534.8(†90.2), 500.3(†38.6)
1028.5 3	0.25 7	²⁵⁰ Es(2.22 h)	989.12(13.3), 1031.85(10.6), 828.82(5.5)
1028.54 10	0.255 25	¹⁴⁶ La(6.27 s)	258.47(64), 924.58(7.45), 702.28(6.43)
• 1028.54 2	20.3 8	²³⁸ Np(2.117 d)	984.45(27.8), 1025.87(9.6), 923.98(2.86)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
1028.54 2	0.115 17	²³⁸ Am(98 m)	962.77(28), 918.69(23.0), 561.11(10.9)
• 1028.54 2	1.6×10 ⁻⁶ 6	²⁴² Cm(162.8 d)	44.08(0.0325), 101.90(0.0025), 157.42(0.0014)
1028.6 6	0.3 2	¹⁸¹ Os(105 m)	238.75(44), 826.77(20), 118.03(12.9)
1028.65 2	4.91 14	²⁵⁰ Bk(3.217 h)	989.12(45), 1031.85(35.6), 889.96(1.530)
1028.65 2	0.44 4	²⁵⁰ Es(8.6 h)	828.82(72), 303.41(21.6), 349.4(19.8)
1028.7 2	0.11 6	¹⁵⁷ Er(18.65 m)	53.05(24), 391.32(14.2), 121.57(10.1)
1028.7 1	0.57 3	²³⁴ Pa(6.70 h)	131.30(18), 946.00(13.4), 883.24(9.6)
• 1028.80 10	0.81 3	¹⁷⁰ Lu(2.00 d)	84.2551(4.256), 1280.25(3.450), 2041.88(1.434)
1028.9 3	0.31 5	⁸⁸ Br(16.5 s)	775.28(63), 802.14(13.13), 1440.69(4.72)
1028.90 30	30.4 18	¹¹⁶ Ag(10.4 s)	513.39(92), 705.82(61), 708.80(20)
1028.9 2	5.5 8	¹¹⁸ Cs(14 s)	337.4(100), 472.8(37.4), 586.6(15.4)
1028.9 5	0.0110 22	¹³⁷ Pr(1.28 h)	836.7(1.8), 433.9(1.28), 514.0(1.08)
1028.9 10	†1.8	¹⁹¹ Tl(5.22 m)	452.6(†100), 470.1(†98), 391.6(†96)
1028.991 190	0.010 3	¹⁸³ Os(13.0 h)	381.768(89.6), 114.463(20.63), 167.844(8.81)
1029 2	>0.06	¹¹¹ Pd(5.5 h)	70.44(8.3), 391.25(5.4), 632.80(3.6)
1029 1	0.42 11	¹⁶⁴ Tb(3.0 m)	168.838(25.4), 754.80(23.3), 215.07(21)
1029.05 20	0.040 9	¹⁵¹ Nd(12.44 m)	116.80(43.4), 255.68(16.4), 1180.89(14.8)
1029.06 3	11.7 4	¹¹⁷ Cd(3.36 h)	1997.33(26), 1065.98(23.1), 564.397(14.7)
1029.1 2	1.2 8	²³² Ac(119 s)	665.0(15.3), 1899(8.9), 1959(5.4)
1029.18 6	0.151 19	¹⁶³ Tm(1.810 h)	104.320(18.6), 69.229(11.6), 241.305(10.9)
1029.21 9	1.62 8	¹⁹⁹ Pb(90 m)	366.90(44.2), 353.39(9.5), 1135.04(7.8)
• 1029.3 5	0.0249 15	⁷² As(26.0 h)	834.01(80), 629.95(7.92), 1463.95(1.107)
1029.4 4	0.27 4	¹²⁰ Xe(40 m)	25.1(30), 72.6(9), 178.1(6.8)
1029.4 3	0.0059 17	¹²¹ I(2.12 h)	212.189(84), 532.08(6.07), 598.74(1.47)
1029.4 3	0.37 4	¹⁵¹ Dy(17.9 m)	386.10(19.4), 49.46(18.0), 546.31(14.3)
1029.4 6	0.028 15	¹⁶¹ Er(3.21 h)	826.6(3.0), 211.15(12.2), 592.6(3.7)
1029.4 8	0.028 15	¹⁶¹ Er(3.21 h)	826.6(3.0), 211.15(12.2), 592.6(3.7)
1029.46 13	0.65 6	¹⁹⁷ Pb(43 m)	385.85(74), 387.72(25.1), 222.45(24.6)
1029.5 3	0.24 3	¹⁸³ Ir(58 m)	392.52(10.4), 228.70(6.9), 87.67(5.6)
1029.55 5	0.105 3	¹⁵¹ Tb(17.609 h)	287.357(28.3), 251.863(26.3), 108.088(24.3)
1029.58 32	0.15 5	¹³⁷ Nd(38.5 m)	75.5(17.0), 580.6(13), 306.60(10.0)
1029.6 7	0.68 5	¹¹² Sb(51.4 s)	1257.05(96), 990.70(14.3), 670.0(3.7)
1029.6 5	0.126 16	¹¹⁵ Ag(20.0 m)	229.08(18), 212.80(4.4), 472.70(4.0)
1029.6 2	0.078 9	¹²⁹ Ba(2.23 h)	6.545(23.7), 214.30(13.4), 220.83(8.54)
1029.60 5	0.33 3	¹⁴¹ Pm(20.90 m)	1223.26(4.74), 886.22(2.44), 193.68(1.61)
1029.6 6	0.52 12	¹⁴¹ Sm(22.6 m)	196.88(74), 431.6(40.4), 777.6(20.3)
1029.65 26	0.023 5	⁸⁵ Br(2.90 m)	802.41(2.56), 924.63(1.63), 919.06(0.65)
1029.7 2	†5.7 1	²⁰³ At(7.4 m)	639.4(†100), 641.5(†55.8), 738.1(†38.4)
1029.81 14	0.019 13	¹⁷⁴ Ta(1.05 h)	206.50(58), 91.00(16.0), 1205.92(4.9)
1029.88 6	1.22 17	¹³³ Te(55.4 m)	912.671(55.28), 647.51(19.4), 863.955(15.6)
1029.9 5	0.57 6	⁷⁶ Br(16.2 h)	559.101(74), 657.041(15.9), 1853.67(14.7)
1029.97 8	1.30 4	¹⁰³ Ag(65.7 m)	118.72(31.2), 148.193(28.3), 266.86(13.3)
1030 1		⁷⁷ Ge(11.30 h)	264.44(54), 211.03(30.8), 215.50(28.6)
1030.0 2	1.42 17	¹⁷³ Ta(3.14 h)	172.2(18), 69.70(5.9), 90.3(5.0)
1030.0 3	†0.9 3	¹⁹⁴ Bi(92 s)	965.4(†100.0), 575.1(†98.0), 280.1(†73.7)
1030.05 7	0.68 4	¹⁶⁵ Yb(9.9 m)	80.11(49), 68.86(9.1), 1090.28(4.4)
1030.1 2	2.02 8	⁸⁵ Y(4.86 h)	231.67(22.8), 2123.8(5.0), 767.40(3.6)
1030.1 4	0.071 11	¹⁰¹ Mo(14.61 m)	191.92(19), 590.91(16.4), 1012.47(12.8)
1030.1 6	12.6 8	¹²⁹ Sb(4.40 h)	812.8(43), 914.6(20.0), 544.7(17.9)
1030.12 7	0.27 3	¹⁷⁹ Re(19.5 m)	430.221(28), 289.968(26.9), 1680.244(13.0)
1030.170 210	0.217 11	¹²⁸ Cs(3.66 m)	442.901(26.8), 526.557(2.41), 1140.079(1.168)
• 1030.20 8	0.0107 8	⁷¹ As(65.28 h)	174.954(82.00), 1095.490(4.08), 499.876(3.624)
• 1030.2 3	0.0131 20	¹⁴⁶ Eu(4.59 d)	747.2(98), 633.03(43), 634.07(37)
• 1030.23 10	0.0310 12	¹²³ Sn(129.2 d)	1088.64(0.6), 1021.00(0.00193), 160.33(0.00191)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
1030.3 5	0.27 10	⁷⁶ Kr(14.8 h)	315.7(39), 270.2(21.1), 45.48(19.5)
1030.4	†0.8	¹⁴⁴ Gd(4.5 m)	333.3(†100), 2432.6(†94.8), 629.5(†32.4)
1030.5	0.015 15	¹⁵¹ Nd(12.44 m)	116.80(43.4), 255.68(16.4), 1180.89(14.8)
1030.6 10		⁷⁶ Zn(5.7 s)	281.7, 831.2, 755.0
• 1030.6 10	0.0009 5	⁷⁶ As(26.32 h)	559.101(45), 657.041(6.2), 1216.104(3.42)
1030.6 5	1.66 12	¹⁸¹ Os(105 m)	238.75(44), 826.77(20), 118.03(12.9)
1030.7 4	1.5 3	¹³⁰ Sb(39.5 m)	793.53(100), 839.49(100), 331.05(78)
1030.8 3	0.081 17	¹⁵³ Dy(6.4 h)	80.723(11.10), 213.754(10.90), 99.659(10.51)
1030.86 24	0.22 8	⁸³ Se(22.3 m)	356.687(70), 510.17(43), 224.8(32.7)
1030.86 24	21.2 7	⁸³ Se(70.1 s)	356.687(18), 987.96(16.1), 673.98(15.2)
• 1030.9 6	0.011 6	¹⁵³ Tb(2.34 d)	212.038(31.0), 170.504(6.8), 109.758(6.4)
1030.9 2	†0.23 5	¹⁶⁰ Ho(5.02 h)	728.18(†100), 879.383(†65.9), 962.317(†59.1)
• 1030.9 5	0.018 6	¹⁹⁴ Au(38.02 h)	328.455(60), 293.545(10.2), 1468.91(6.3)
1030.9 3	1.1 5	¹⁹⁶ Bi(308 s)	1049.21(87), 689.00(35.5), 776.6(9.1)
1030.9 3	†0.32 14	¹⁹⁶ Bi(240 s)	1049.21(†21.1), 371.93(†20.8), 689.00(†19.2)
1031.00 17	1.36 6	¹⁸⁶ Au(10.7 m)	191.56(62), 298.67(25.4), 764.89(10.5)
1031.0 2	1.23 9	¹⁹⁰ Tl(3.7 m)	416.4(91), 625.4(82), 731.1(37)
1031.04 19	3.16 5	¹⁵⁶ Ho(56 m)	266.35(54.7), 137.83(51), 366.25(10.73)
1031.2 3	0.062 16	⁹⁰ Kr(32.32 s)	1118.69(39.0), 121.82(35.5), 539.49(30.8)
• 1031.22 3	0.0201 9	¹⁴³ Ce(33.039 h)	293.266(42.80), 57.356(11.7), 664.571(5.69)
1031.3 4	0.0105 24	⁷⁷ Kr(74.4 m)	129.64(81), 146.59(37.3), 312.0(3.7)
1031.3 2	†4.0 5	¹³¹ Pr(1.53 m)	266.13(†100), 72.82(†64), 387.56(†38)
1031.5 6	1.5 13	¹²⁰ I(53 m)	560.44(100), 601.11(87), 614.62(67)
1031.5 5	0.25 6	¹³⁶ Nd(50.65 m)	108.90(32), 40.2(18.9), 574.8(10.4)
1031.5 3	0.178 21	¹⁴⁰ Cs(63.7 s)	602.345(71.1), 908.25(11.6), 1200.25(6.39)
• 1031.52 6	0.034 11	²⁰⁵ Bi(15.31 d)	1764.36(1.368), 703.44(31), 987.62(0.585)
1031.57 24	†1.18 23	¹⁶² Lu(1.37 m)	166.82(†100), 631.87(†26.6), 798.76(†16.9)
1031.59 8	0.250 17	⁷⁹ Ge(19.1 s)	109.58(21), 1505.85(9.2), 100.48(2.70)
1031.59 8	2.15 12	⁷⁹ Ge(39.0 s)	230.62(61), 542.27(32.6), 755(18)
1031.6 2		¹⁰⁶ In(6.2 m)	632.66(100), 861.16(92), 997.87(48)
1031.69 8	1.99 18	²⁰⁵ At(26.2 m)	719.30(31), 669.41(8.6), 628.88(5.6)
• 1031.70 3	0.125 5	¹³² Cs(6.479 d)	464.55(1.73), 567.14(0.234)
1031.70 3	7.8 5	¹³² La(4.8 h)	464.55(76), 567.14(15.7), 1909.91(9.0)
1031.70 3	2.7	¹³² La(24.3 m)	464.55(22), 663.07(11.6), 285.6(7)
1031.7 2		²²³ Rn(23.2 m)	591.8(†100), 635.2(†76), 416.0(†55)
1031.75 10	9.6 6	¹²⁵ In(2.36 s)	1335.04(71), 617.88(7.4), 744.62(5.2)
1031.77 8	0.0044 13	¹⁴⁹ Nd(1.728 h)	211.309(25.9), 114.314(19.2), 270.166(10.7)
1031.8 2	0.77 5	¹⁴³ Gd(39 s)	258.81(75), 204.77(19.4), 463.7(9.9)
1031.8 3	0.21 5	¹⁸⁸ Hg(3.25 m)	66.7(63), 190.1(4.40), 82.7(2.6)
1031.85 2	35.6 5	²⁵⁰ Bk(3.217 h)	989.12(45), 1028.65(4.91), 889.96(1.530)
1031.85 2	10.6 8	²⁵⁰ Es(2.22 h)	989.12(13.3), 828.82(5.5), 1167.25(2.94)
1031.87 12	0.054 5	⁸⁵ Br(2.90 m)	802.41(2.56), 924.63(1.63), 919.06(0.65)
1031.9 10	0.05 3	¹⁰⁵ Cd(55.5 m)	961.84(4.69), 346.870(4.20), 1302.459(3.98)
1031.9 10	0.07 5	¹⁰⁵ Cd(55.5 m)	961.84(4.69), 346.870(4.20), 1302.459(3.98)
1031.9 2	7.8 9	¹¹⁵ Te(6.7 m)	770.40(34.2), 723.569(18), 1071.70(12.9)
• 1031.91 6	0.131 7	¹⁶⁹ Lu(34.06 h)	960.622(23.4), 191.2137(20.6), 1449.74(9.92)
1031.94 4	58 3	⁸⁹ Rb(15.15 m)	1248.19(42.6), 2196.02(13.3), 657.77(10.0)
1032.0 3	0.050 11	¹⁵³ Dy(6.4 h)	80.723(11.10), 213.754(10.90), 99.659(10.51)
• 1032	0.031 9	¹⁵⁶ Tb(5.35 d)	534.318(66.6), 199.2132(40.9), 1222.36(31.00)
1032.1 1	2.9 3	¹⁴⁶ Tb(23 s)	1579.4(100), 1078.6(51.6), 1417.2(17.2)
1032.162 270.042 4		⁶¹ Cu(3.333 h)	282.956(12.2), 656.008(10.77), 67.412(4.23)
• 1032.26 10	32.9 7	²⁰⁶ Po(8.8 d)	511.36(24.1), 286.410(23.8), 807.38(22.7)
1032.3 3	13.7 10	⁵² Sc(8.2 s)	1049.7(98), 1267.9(39), 1214.5(11.7)
1032.3 4	0.065 6	⁷² Ga(14.10 h)	834.01(96), 2201.69(25.9), 629.95(24.8)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
1032.3 8	0.038 20	¹⁶⁵ Yb(9.9 m)	80.11(49), 68.86(9.1), 1090.28(4.4)
1032.37 8	0.072 23	²¹⁴ Bi(19.9 m)	609.312(44.8), 1764.494(15.36), 1120.287(14.80)
1032.4 4	0.0048 6	⁴⁵ Ti(184.8 m)	720.22(0.154), 1408.6(0.085), 1662.4(0.041)
1032.4 5	0.10 3	⁹³ Sr(7.423 m)	590.238(67), 875.73(24.1), 888.13(21.8)
1032.4 6	0.105 21	¹³⁶ Pr(13.1 m)	552.16(76), 539.75(52), 1092.3(18.5)
1032.4 2	0.030 15	¹⁵¹ Nd(12.44 m)	116.80(43.4), 255.68(16.4), 1180.89(14.8)
1032.4 2	0.044 15	¹⁵¹ Nd(12.44 m)	116.80(43.4), 255.68(16.4), 1180.89(14.8)
1032.4 3	0.144 22	¹⁸¹ Au(11.4 s)	198.60(4.4), 2022.4(4.2), 79.40(4.2)
1032.5 4	0.54 9	¹⁵⁷ Tm(3.63 m)	455.00(9.3), 385.5(8.8), 348.40(8.4)
1032.55 8	0.85	¹⁵⁴ Pm(1.73 m)	2057.76(17.1), 1393.9(14.4), 81.99(12.6)
1032.59 17	0.530 19	⁹¹ Mo(65.0 s)	1507.93(24.3), 1208.09(18.7), 2240.87(0.73)
1032.6 5	0.58 6	⁷⁶ Br(16.2 h)	559.101(74), 657.041(15.9), 1853.67(14.7)
1032.6 1	10.0 9	¹¹¹ Sb(75 s)	154.48(71), 489.1(42), 755.4(5.1)
1032.64 7	10.8 12	¹⁶⁸ Lu(6.7 m)	198.82(28), 979.22(20), 896.12(15)
1032.8	0.09 3	¹⁴⁹ Tb(4.118 h)	352.24(29.43), 164.98(26.4), 388.57(18.37)
1032.8 2	0.018 4	²³⁴ Pa(6.70 h)	131.30(18), 946.00(13.4), 883.24(9.6)
1032.85 7	35 3	¹⁰⁸ In(58.0 m)	875.46(100), 632.96(100), 242.84(41)
1032.9 3	0.38 6	¹⁸³ Ir(58 m)	392.52(10.4), 228.70(6.9), 87.67(5.6)
1032.9		²³⁸ Pa(2.3 m)	1015.3(\dagger <100), 1014.6(\dagger <100), 635.18(\dagger 88)
1033 2	0.26 8	⁵¹ Sc(12.4 s)	1437.3(52), 2144.1(31.8), 1567.5(14.9)
1033.0 1	0.342 14	¹⁴² Ba(10.6 m)	255.300(20.5), 1204.3(14.23), 895.2(13.9)
1033.0 10	0.17 3	²⁰¹ Bi(108 m)	629.1(24.0), 936.2(11.3), 1014.1(10.7)
1033.0 10	0.43 8	²²⁸ Fr(39 s)	473.7(10.2), 474.0(7.6), 410.40(6.3)
1033.04 21	0.36 7	¹⁰⁵ In(5.07 m)	131.37(41), 260.21(15.7), 604.11(9.2)
1033.1 18	2.5 9	⁵³ Ti(32.7 s)	127.6(46), 228.4(40), 1675.5(25)
1033.10 20	0.070 19	¹⁰⁵ Cd(55.5 m)	961.84(4.69), 346.870(4.20), 1302.459(3.98)
1033.11 3	0.47 4	¹⁵⁴ Tb(9.4 h)	123.071(30), 247.925(22.1), 540.18(20)
1033.11 3	0.44 7	¹⁵⁴ Tb(21.5 h)	123.071(26), 1274.436(10.5), 2187.10(9.9)
1033.2 1	0.110 22	¹⁰⁹ Ru(34.5 s)	206.29(22.0), 225.98(19.6), 1929.05(13.7)
1033.2 4	0.47 5	¹²⁰ Xe(40 m)	25.1(30), 72.6(9), 178.1(6.8)
1033.2 4	\dagger 0.3 1	¹³⁸ Pm(3.24 m)	520.9(\dagger 100), 729.0(\dagger 37.8), 493.1(\dagger 21.6)
1033.2 4	0.100 5	¹⁴³ Ba(14.33 s)	211.475(25), 798.79(15.6), 980.45(11.55)
1033.2 5	0.023 6	²¹⁴ Bi(19.9 m)	609.312(44.8), 1764.494(15.36), 1120.287(14.80)
1033.250 100.207 13		²²⁸ Ac(6.15 h)	911.205(26.6), 968.971(16.2), 338.322(11.3)
1033.250 100.50 3		²²⁸ Pa(22 h)	911.205(4.19), 463.005(1.250), 964.770(4.25)
• 1033.3 8	0.006 5	¹⁵³ Tb(2.34 d)	212.038(31.0), 170.504(6.8), 109.758(6.4)
1033.30 9	0.44 7	¹⁵⁴ Tb(21.5 h)	123.071(26), 1274.436(10.5), 2187.10(9.9)
1033.3 5	\dagger 2.1 3	¹⁸² Ir(15 m)	273.23(\dagger 100), 126.79(\dagger 77), 236.3(\dagger 21.0)
1033.3 3	\dagger 2.1 4	¹⁸³ Hg(9.4 s)	60.5(\dagger 100), 159.91(\dagger 21), 172.70(\dagger 17)
1033.4	0.25 4	¹⁴⁹ Tb(4.118 h)	352.24(29.43), 164.98(26.4), 388.57(18.37)
• 1033.4	0.0118 6	¹⁵⁴ Eu(8.593 y)	123.071(40.79), 1274.436(35.19), 723.304(20.22)
1033.47 4	1.06 5	¹⁵⁵ Ho(48 m)	240.19(12.5), 136.30(5.00), 45.38(5)
1033.48 21	1.8 2	⁹⁴ Rh(25.8 s)	756.23(100), 1430.50(100), 311.70(97.3)
1033.5 2	0.14 4	²⁴⁰ Np(61.9 m)	566.34(25.3), 973.9(23.8), 600.57(18.4)
• 1033.5 2	0.010 1	²⁴⁰ Am(50.8 h)	987.76(73.2), 888.80(25.1), 98.860(1.5)
• 1033.542 170.1952 25		⁷¹ As(65.28 h)	174.954(82.00), 1095.490(4.08), 499.876(3.624)
1033.6 3	0.113 20	⁹⁵ Rb(377.5 ms)	352.02(49), 204.02(15.1), 680.7(14.8)
1033.7 6	2.5 18	¹⁷² Ho(25 s)	133.6(36), 178.0(23), 757.2(18)
1033.74 10	0.046 7	¹⁸⁹ Pt(10.87 h)	721.41(9.3), 94.33(7.6), 568.84(7.1)
1033.8 3	9	²⁰³ Bi(11.76 h)	820.3(30), 825.2(14.6), 896.9(13)
1033.8 5	0.33 6	²³⁰ Fr(19.1 s)	711.0(13.6), 129.1(11.0), 728.4(7.3)
1033.9 8	1.9 5	¹¹⁶ Cs(3.84 s)	393.5(<0.09), 524.3(76), 615.1(30.4)
1033.95 11	0.130 22	¹⁶³ Tm(1.810 h)	104.320(18.6), 69.229(11.6), 241.305(10.9)
• 1033.986 147.77 14		¹⁴⁸ Eu(54.5 d)	550.284(98.5), 629.987(71.9), 611.293(20.5)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
1033.998	280.0529 11	¹⁵⁹ Ho(33.05 m)	121.012(36.2), 131.973(23.6), 309.594(17.2)
1034		¹³² Pr(1.6 m)	325.5(†100), 496.9(†25), 822.4(†17.3)
1034.0 3	0.119 14	¹⁶⁷ Lu(51.5 m)	29.66(14.4), 239.22(8.6), 213.19(3.6)
1034.0 5	†11.7 13	¹⁸⁰ Au(8.1 s)	153.3(†100), 524.3(†29), 257.6(†26)
1034.0 3	0.35 4	¹⁸⁴ Au(53.0 s)	162.97(50), 272.98(40), 362.47(17.5)
1034.02 2	0.53 4	¹⁴⁵ Cs(0.594 s)	175.36(20), 198.93(10.9), 112.46(10.71)
1034.087	110.421 17	¹⁷³ Hf(23.6 h)	123.672(83), 296.974(33.9), 139.634(12.7)
• 1034.20 30	0.027 9	¹⁷⁰ Lu(2.00 d)	84.2551(4.256), 1280.25(3.450), 2041.88(1.434)
1034.2 2	0.29 5	²⁴² Np(2.2 m)	735.93(5), 780.44(2.76), 1473.1(2.34)
1034.25 10	1.4 1	¹⁵⁶ Pm(26.70 s)	173.75(52.0), 1147.84(20.5), 117.42(13.8)
1034.3 3	1.44 6	¹⁰⁰ Rh(20.8 h)	539.59(78.4), 2376.1(35.3), 1553.4(21)
1034.3	0.19 4	¹⁴¹ Ba(18.27 m)	190.328(46.0), 304.194(25.4), 276.948(23.4)
1034.3 3	16	¹⁹⁹ Po(4.13 m)	1002.19(19), 362.01(7), 499.61(4.3)
1034.39 21	1.70 8	¹⁷² Ta(36.8 m)	214.02(46), 95.23(17.5), 1109.27(12.4)
1034.4 5	1.06 17	⁹⁷ Pd(3.10 m)	265.26(56), 475.2(26.7), 792.70(13.8)
1034.47 6	0.120 25	¹⁵⁸ Eu(45.9 m)	944.09(25), 977.131(13.6), 79.5104(11)
1034.49 4	0.022 4	¹⁶⁸ Ho(2.99 m)	741.356(36.6), 821.164(34.5), 815.990(18.6)
1034.6 1	†8.10 32	¹²⁹ Ba(2.17 h)	182.30(†100), 1459.1(†50.0), 202.38(†33.7)
1034.6	99.7	¹⁴⁹ Ho(58 s)	1736.4(28.0), 372.1(25.3), 1754.0(19.0)
1034.60 10	0.201 22	¹⁵³ Dy(6.4 h)	80.723(11.10), 213.754(10.90), 99.659(10.51)
1034.6 10	0.53 11	¹⁶⁴ Tb(3.0 m)	168.838(25.4), 754.80(23.3), 215.07(21)
1034.72 8	0.0272 7	¹⁶¹ Gd(3.66 m)	360.94(0.59), 314.92(22.7), 102.315(13.9)
1034.79 13	0.0055 10	¹⁶⁶ Tm(7.70 h)	778.817(18.9), 2052.36(17.2), 184.410(16.1)
1034.80 20	0.39 7	⁹⁹ Ag(124 s)	264.41(65), 832.29(13.5), 805.07(12.5)
1034.8 4	†4.5 10	¹⁵⁹ Yb(1.58 m)	166.16(†500), 177.12(†159), 390.20(†113)
1034.8 3	0.47 7	¹⁸¹ Au(11.4 s)	198.60(4.4), 2022.4(4.2), 79.40(4.2)
1034.85 5	6.02 6	¹⁸³ Os(9.9 h)	1101.94(49.0), 1107.92(22.36), 484.40(2.21)
1034.87 22	0.25 5	¹⁰³ Cd(7.3 m)	1461.81(12), 1448.70(5.55), 1079.90(5.44)
1034.9 6	0.13 5	⁹¹ Rb(58.4 s)	93.628(33.7), 2564.19(12.5), 3599.67(10.4)
1034.9 3	†3.2 6	¹⁸⁹ Hg(7.6 m)	320.99(†100), 78.21(†63), 565.42(†48)
1035	†6	⁹² Br(0.343 s)	769(†100), 1446(†10), 678(†6)
1035.0 2	0.51 5	¹³² I(2.295 h)	667.718(99), 772.60(75.6), 954.55(17.6)
1035.0 2	0.025 5	¹⁷⁶ Ta(8.09 h)	1159.28(25), 88.34(12), 1224.93(6)
• 1035.07 6	1.00 5	¹²⁶ Sb(12.46 d)	695.03(100), 666.331(100), 414.81(83.3)
1035.07 6	1.80 17	¹²⁶ Sb(19.15 m)	414.81(86), 666.331(86), 695.03(82)
1035.1 5	0.066 21	⁹³ Rb(5.84 s)	432.61(17.4), 986.05(6.8), 213.429(6.7)
1035.1 10	0.94 17	¹¹⁹ Cd(2.20 m)	1025.0(24.8), 2021.3(22.6), 720.7(17.9)
1035.18 10	0.50 20	²⁰² Bi(1.72 h)	960.67(99), 422.18(83.7), 657.49(60.6)
1035.2 2	3.70 18	⁶⁰ Cu(23.7 m)	1332.501(88), 1791.6(45.4), 826.06(21.7)
• 1035.4 4	0.036 6	⁸³ Sr(32.41 h)	762.65(30), 381.53(14.1), 418.37(4.41)
• 1035.40 10	0.00056 24	¹²¹ Te(154 d)	1102.149(2.54), 37.138(0.94), 998.291(0.0796)
1035.4 3	1.6 3	¹²⁶ Ba(100 m)	233.6(19.6), 257.6(7.6), 241.0(6.0)
• 1035.4 2	0.137 10	¹³¹ Te(30 h)	773.67(49.9), 852.21(27.0), 793.75(18.10)
1035.4	0.015 7	¹⁵¹ Nd(12.44 m)	116.80(43.4), 255.68(16.4), 1180.89(14.8)
• 1035.4 4	0.016 9	¹⁵³ Tb(2.34 d)	212.038(31.0), 170.504(6.8), 109.758(6.4)
1035.4 4	0.80 12	¹⁷⁵ Ta(10.5 h)	207.4(14.0), 348.5(12.0), 266.9(10.8)
1035.4 5	†5.7 15	²³³ Pu(20.9 m)	235.4(†100), 534.8(†90.2), 500.3(†38.6)
1035.5 10	1.1 4	⁹⁰ Tc(49.2 s)	1054.3(100), 948.1(100), 944.7(36.6)
1035.5 3	0.20 3	⁹³ Sr(7.423 m)	590.238(67), 875.73(24.1), 888.13(21.8)
1035.5 3	0.037 19	⁹⁸ Nb(51.3 m)	787.374(93), 722.645(73.8), 1168.830(17.8)
1035.5 4	0.23 10	¹²¹ Cs(122 s)	179.4(30.2), 196.0(24.1), 459.7(12.0)
1035.5 5	0.0028 21	¹³¹ Te(25.0 m)	149.716(69), 452.323(18.18), 1146.96(4.95)
1035.5 4	0.74 14	¹⁵⁷ Tm(3.63 m)	455.00(9.3), 385.5(8.8), 348.40(8.4)
1035.54 17	0.93 18	¹⁹³ Hg(11.8 h)	257.97(61), 407.63(25), 573.25(14.2)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
1035.58 ₂₅	0.0087 ₁₇	¹³³ I(20.8 h)	529.872(87.0), 875.329(4.51), 1298.223(2.35)
1035.6 ₃	1.06 ₁₃	¹²¹ Xe(40.1 m)	252.7(13), 132.8(10.9), 445.2(7.7)
1035.61 ₇	0.24 ₄	¹¹⁷ Cd(2.49 h)	273.349(28), 1303.27(18.4), 344.459(17.9)
1035.7 ₇	0.053 ₁₄	¹⁷⁹ Re(19.5 m)	430.221(28), 289.968(26.9), 1680.244(13.0)
• 1035.71 ₈	0.0073 ₂₄	¹⁸² Ta(114.43 d)	67.75001(41.2), 1121.3007(34.9), 1221.4066(26.98)
1035.71 ₈	0.0073 ₁₉	¹⁸² Re(12.7 h)	67.75001(38.2), 1121.3007(32), 1221.4066(24.8)
1035.9 ₈	0.9 ₃	¹¹⁶ Cs(3.84 s)	393.5(<0.09), 524.3(76), 615.1(30.4)
1035.9 ₃	0.57 ₁₀	¹²² Cs(21.0 s)	331.1(48), 512.0(3.8), 817.9(3.09)
1035.9 ₃	0.172 ₂₀	¹⁶³ Yb(11.05 m)	860.28(10.1), 63.62(6.5), 123.21(1.98)
1035.9 ₂	0.085 ₁₇	¹⁹¹ Au(3.18 h)	586.45(17), 277.88(7.2), 674.19(6.8)
1035.9 ₂	0.026 ₉	²³⁴ Pa(6.70 h)	131.30(18), 946.00(13.4), 883.24(9.6)
1036.00 ₂₀	7.4 ₁₀	¹⁰² Sr(69 ms)	243.80(53), 150.15(18.0), 93.89(13.4)
1036.0 ₄	0.017 ₁₇	¹¹⁷ Cd(2.49 h)	273.349(28), 1303.27(18.4), 344.459(17.9)
• 1036.1	0.0079 ₁₄	¹⁴⁸ Eu(54.5 d)	550.284(98.5), 629.987(71.9), 611.293(20.5)
1036.0 ₄	0.010 ₄	¹⁸⁰ Re(2.44 m)	902.795(90), 103.557(22.2), 825.357(9.9)
1036.00 ₄	12.6 ₄	²⁴⁶ Am(25.0 m)	1078.86(27.7), 798.80(25), 1062.04(17.1)
• 1036.00 ₄	1.75 ₁₃	²⁴⁶ Bk(1.80 d)	798.80(61), 1081.40(5.8), 833.60(5.0)
1036.05 ₂₀	0.27 ₃	¹⁹⁰ Re(3.2 h)	186.718(27.8), 605.24(14.9), 557.972(14.3)
• 1036.05 ₂₀	2.42 ₁₄	¹⁹⁰ Ir(11.78 d)	186.718(52.4), 605.24(39.9), 518.55(34.0)
1036.08 ₁₅	0.19 ₃	¹⁰⁷ In(32.4 m)	204.97(47), 505.51(11.9), 320.92(10.2)
1036.1 ₄	0.24 ₉	⁷⁶ Rb(39.1 s)	2571.3(47), 424.0(43.4), 355.6(8.2)
1036.1 ₄	2.02 ₁₉	¹²⁷ Sn(2.10 h)	1114.3(39), 1095.6(20), 823.1(10.9)
1036.1		²³⁸ Pa(2.3 m)	1015.3(†<100), 1014.6(†<100), 635.18(†88)
• 1036.1 ₃	0.015 ₂	²⁴⁰ Am(50.8 h)	987.76(73.2), 888.80(25.1), 98.860(1.5)
1036.13 ₇	0.234 ₁₂	⁸⁹ Br(4.40 s)	1097.82(6.00), 997.93(4.26), 953.53(4.26)
1036.16 ₇	0.198 ₁₀	¹⁵¹ Nd(12.44 m)	116.80(43.4), 255.68(16.4), 1180.89(14.8)
1036.2 ₁₀	2.6 ₃	¹⁹⁶ Tl(1.84 h)	426.0(84), 610.5(11.9), 635.5(9.8)
1036.2 ₁₀	†10 ₁₀	¹⁹⁶ Tl(1.41 h)	426.0(†540), 635.5(†304), 695.6(†243)
1036.2 ₈	0.008 ₃	²⁴⁵ Pu(10.5 h)	327.428(25.4), 560.13(5.4), 308.222(4.9)
1036.3 ₃	2.05 ₁₇	¹²⁸ La(5.0 m)	284.00(87), 479.24(54), 643.65(14.7)
1036.3 ₃	0.12 ₆	¹³³ Ce(4.9 h)	477.22(39), 510.36(20.7), 58.39(19.2)
1036.3 ₂	†2 ₁	¹³⁹ I(2.29 s)	527.7(†100), 571.2(†98), 536.6(†67)
1036.3 ₃	0.123 ₁₁	¹³⁹ Xe(39.68 s)	218.59(56), 296.53(21.7), 174.97(11.3)
1036.38 ₉	0.0162 ₁₁	⁷³ Se(7.15 h)	360.80(108), 67.03(78), 865.09(0.584)
1036.4 ₁	3.6 ₁₈	¹⁴¹ Gd(24.5 s)	351.1(89), 223.9(64), 574.9(51)
1036.4 ₃	10.3 ₂	¹⁷⁷ W(135 m)	115.65(50), 426.98(13.2), 115.05(8.6)
1036.4 ₆	0.35 ₆	¹⁹² Au(4.94 h)	316.50791(58.0), 295.95827(22.3), 2236.89(5.6)
1036.48 ₂₄	0.30 ₄	¹⁵¹ Dy(17.9 m)	386.10(19.4), 49.46(18.0), 546.31(14.3)
1036.5 ₃	>0.21	⁸³ Se(22.3 m)	356.687(70), 510.17(43), 224.8(32.7)
1036.5 ₃	0.38 ₈	⁸³ Se(22.3 m)	356.687(70), 510.17(43), 224.8(32.7)
1036.5 ₃	0.0030 ₂₀	²⁴⁰ Np(7.22 m)	554.60(20.9), 597.40(11.7), 1496.9(1.33)
1036.6 ₂	12.8 ₆	¹⁰² Cd(5.5 m)	481.0(63), 505.1(9.6), 414.8(7.6)
1036.6 ₂	0.126 ₁₂	¹⁴⁷ Pr(13.4 m)	77.9921(15), 314.675(13.2), 641.380(10.0)
1036.6 ₅	0.170 ₂₁	¹⁶² Tm(21.70 m)	102.00(17.5), 798.68(8.4), 227.52(7)
1036.6 ₂	†3.3 ₃	¹⁸⁵ Hg(21.6 s)	222.8(†100.0), 258.7(†98), 212.5(†58)
1036.63 ₁₇	0.00100 ₂₅	¹²³ I(13.27 h)	158.97(83), 528.96(1.39), 440.02(0.428)
1036.7	†1.6 ₄	¹⁷¹ Hf(12.1 h)	122.0(†100), 662.2(†83), 347.18(†47)
1036.72 ₁₅	0.59 ₉	¹⁸³ Au(42.0 s)	161.18(9.4), 214.13(5.9), 313.08(5.0)
• 1036.75 ₂₀	0.040 ₁₂	¹⁵³ Tb(2.34 d)	212.038(31.0), 170.504(6.8), 109.758(6.4)
1036.9 ₉	†0.7 ₄	¹³¹ Sn(56.0 s)	1226.03(†100), 450.03(†90), 798.50(†86)
1036.9 ₃	0.8	¹⁴⁵ La(24.8 s)	70.0(11), 355.8(3.8), 118.2(3.6)
1036.92 ₉	0.32 ₃	¹³² La(4.8 h)	464.55(76), 567.14(15.7), 1909.91(9.0)
• 1037.0 ₄	0.00047 ₁₄	¹³¹ Ba(11.50 d)	496.326(47), 123.805(28.97), 216.078(19.66)
1037.0 ₃	†2.9 ₃	¹⁵² Tb(17.5 h)	344.281(†1500), 586.294(†223), 271.135(†203)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
• 1037	0.053 5	¹⁵⁶ Eu(15.19 d)	811.79(9.70), 88.9667(8.4), 1230.68(7.98)
• 1037.07	0.07	¹⁴⁶ Eu(4.59 d)	747.2(98), 633.03(43), 634.07(37)
1037.07 7	0.62 7	¹⁶⁷ Yb(17.5 m)	113.34(55.3), 106.18(22.5), 176.25(21)
1037.08 59	0.079 24	¹⁴¹ Xe(1.73 s)	909.23(24.0), 118.705(16.1), 105.937(9.8)
1037.1 4	0.18 6	¹⁰¹ Zr(2.1 s)	119.3(10.8), 205.6(6.0), 912.2(3.48)
1037.1 4	0.125 13	¹⁶³ Tm(1.810 h)	104.320(18.6), 69.229(11.6), 241.305(10.9)
1037.2 6	0.0210 19	⁷² Ga(14.10 h)	834.01(96), 2201.69(25.9), 629.95(24.8)
1037.2 3	0.044 14	⁹⁴ Tc(52.0 m)	871.082(94), 1868.68(5.7), 1522.11(4.5)
1037.2 2	†271 48	¹⁵⁷ Ho(12.6 m)	279.97(†47600), 341.16(†37000), 193.41(†15200)
1037.2 3	0.19 3	¹⁸³ Ir(58 m)	392.52(10.4), 228.70(6.9), 87.67(5.6)
1037.28 9	0.39 5	²⁰⁴ Bi(11.22 h)	899.15(98), 374.72(82), 984.02(59)
1037.3 1	6.6 6	⁹⁶ Rb(0.199 s)	815.0(78.00), 692.0(8.0), 813.2(7.0)
1037.3 1	3.2	⁹⁷ Rb(169.9 ms)	815.0(100), 692.0(16.5), 414.3(15.0)
1037.32 30	2.00 20	¹²⁴ In(2.4 s)	1131.64(100), 969.94(52), 1072.85(47)
1037.4 5	3.28 21	²³² Np(14.7 m)	327.3(52), 819.187(33.3), 866.760(24.4)
1037.43 10	1.19 6	⁷⁷ Rb(3.75 m)	66.52(57), 178.99(22.2), 393.37(9.7)
1037.43 14	0.40 5	¹⁹⁷ Pb(43 m)	385.85(74), 387.72(25.1), 222.45(24.6)
• 1037.49 13	0.047 23	¹⁶⁹ Lu(34.06 h)	960.622(23.4), 191.2137(20.6), 1449.74(9.92)
1037.5 6	1.0 3	¹⁷⁸ Re(13.2 m)	237.3(45), 105.9(23.0), 939.1(8.9)
• 1037.530 150.2017 25		⁷¹ As(65.28 h)	174.954(82.00), 1095.490(4.08), 499.876(3.624)
1037.56 7	0.603 15	¹⁴³ Ba(14.33 s)	211.475(25), 798.79(15.6), 980.45(11.55)
• 1037.599 2697.6 5		⁴⁸ Sc(43.67 h)	1312.096(100.1), 983.517(100.1), 175.361(7.48)
1037.62 4	0.55 3	¹⁴⁶ La(6.27 s)	258.47(64), 924.58(7.45), 702.28(6.43)
1037.63 7	0.29 2	⁸⁷ Br(55.60 s)	1419.71(22.0), 1476.04(7.9), 1577.60(6.0)
1037.69 8	0.27 11	²⁰³ Po(36.7 m)	908.64(55), 1090.95(19.2), 893.49(18.7)
• 1037.76 15	1.045 12	¹⁵⁶ Tb(5.35 d)	534.318(66.6), 199.2132(40.9), 1222.36(31.00)
1037.8 7	1.8 3	⁹⁸ Ag(46.7 s)	863.1(100), 678.5(85), 570.93(53)
1037.8 1	101 5	¹³⁸ Pr(2.12 h)	788.742(100), 302.7(80), 390.9(6.1)
1037.8 4	0.027 6	²⁰⁹ At(5.41 h)	545.0(91), 781.9(83.5), 790.2(63.5)
1037.81 8	0.384 19	¹⁸⁷ Ir(10.5 h)	912.95(4.79), 427.12(4.12), 400.89(3.94)
1037.83 8	0.103 8	⁸⁵ Br(2.90 m)	802.41(2.56), 924.63(1.63), 919.06(0.65)
1037.840 6	0.040 5	⁵⁶ Mn(2.5785 h)	846.771(98.9), 1810.772(27.2), 2113.123(14.3)
• 1037.840 6	13.99 10	⁵⁶ Co(77.27 d)	846.771(100), 1238.282(67.6), 2598.459(17.28)
1037.9 3	0.073 9	¹¹² Ag(3.130 h)	617.27(43), 1387.67(5.4), 606.49(3.1)
1037.9 2	0.018 6	²³⁴ Pa(6.70 h)	131.30(18), 946.00(13.4), 883.24(9.6)
1037.93 6	4.16 21	²⁰⁹ Rn(28.5 m)	408.32(50.3), 745.78(22.8), 337.45(14.5)
1038		¹¹² In(14.97 m)	617.27(4.6), 606.49(1.111), 1253.43(0.218)
1038.0 3	0.96 14	¹¹⁷ Ag(5.34 s)	135.4(48), 386.8(39.9), 298.1(21.1)
1038 1	>0.35	¹³⁷ Pm(2.4 m)	177.5(40.29), 108.6(35), 233.6(29.57)
1038.0 1	†0.8 2	¹⁶⁰ Lu(36.1 s)	243.2(†100), 395.4(†21.0), 577.2(†10.7)
1038.0 10	0.15 3	²⁰⁵ At(26.2 m)	719.30(31), 669.41(8.6), 628.88(5.6)
1038.0 6	0.011 6	²¹⁴ Bi(19.9 m)	609.312(44.8), 1764.494(15.36), 1120.287(14.80)
1038.1 2	†0.57 12	¹⁵⁸ Ho(11.3 m)	218.21(†100.0), 98.91(†70), 945.7(†37)
1038.1 5	0.056 15	¹⁶¹ Er(3.21 h)	826.6(3.0), 211.15(12.2), 592.6(3.7)
• 1038.11 4	0.114 9	²⁰⁵ Bi(15.31 d)	1764.36(1.368), 703.44(31), 987.62(0.585)
1038.18 5	0.0067 5	¹³³ La(3.912 h)	278.835(2.50), 302.353(1.648), 290.06(1.413)
1038.2 7	0.20 3	¹⁵⁹ Eu(18.1 m)	67.8(19), 78.6(9.1), 95.7(7.0)
1038.2 5	0.46 8	¹⁶¹ Yb(4.2 m)	78.20(34), 599.88(25.9), 631.45(13.9)
1038.2 5	0.036 14	²¹¹ Rn(14.6 h)	674.1(45), 1362.9(32.5), 678.4(28.9)
1038.3 5	0.030 12	⁸⁹ Kr(3.15 m)	220.948(20.1), 586.03(16.6), 904.27(7.2)
1038.3 6	0.053 5	²⁰⁷ Po(5.80 h)	992.33(59.3), 742.64(28.2), 911.79(16.95)
1038.3 3	0.65 5	²⁰⁸ At(1.63 h)	686.527(98), 660.040(89), 177.595(48.6)
1038.33 10	0.0071 5	¹⁵⁹ Ho(33.05 m)	121.012(36.2), 131.973(23.6), 309.594(17.2)
• 1038.35 20	0.024 3	¹⁴⁶ Eu(4.59 d)	747.2(98), 633.03(43), 634.07(37)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
1038.44 6	0.586 9	¹⁰⁵ Cd(55.5 m)	961.84(4.69), 346.870(4.20), 1302.459(3.98)
1038.48 4	0.050 8	¹³⁵ Ce(17.7 h)	265.56(41.8), 300.07(23.5), 606.76(18.8)
1038.5 4	1.2 4	⁸¹ Ge(7.6 s)	335.98(58.9), 792.94(34), 1495.53(19.9)
1038.5 4	1.3 4	⁸¹ Ge(7.6 s)	93.10(26), 335.98(12.8), 197.30(12.3)
1038.5 1	0.077 6	¹¹⁹ I(19.1 m)	257.52(87), 635.86(2.69), 320.53(2.17)
1038.5 8	1.5 4	¹²¹ Cd(8.3 s)	2059.41(21.0), 1020.89(18.9), 987.81(13.6)
• 1038.55 25	0.087 9	⁸³ Sr(32.41 h)	762.65(30), 381.53(14.1), 418.37(4.41)
• 1038.56 8	0.31 3	¹⁹⁴ Au(38.02 h)	328.455(60), 293.545(10.2), 1468.91(6.3)
• 1038.571 261.00 1		¹³⁴ Cs(2.062 y)	604.699(97.56), 795.845(85.44), 569.315(15.43)
1038.571 260.00377 25		¹³⁴ La(6.45 m)	604.699(5.05), 1554.934(0.414), 563.227(0.359)
1038.63 7	0.218 8	⁹⁰ Rb(158 s)	831.69(28), 1060.70(6.69), 4365.90(5.6)
1038.68 12	0.61 11	¹⁰⁰ Y(735 ms)	212.531(73), 118.59(15.4), 665.98(7.7)
1038.7		¹⁸⁵ Ir(14.4 h)	254.4(13.3), 1828.8(10), 60.0(5.7)
1038.757 120.323 12		¹⁷³ Hf(23.6 h)	123.672(83), 296.974(33.9), 139.634(12.7)
1038.760 218.01 9		¹³⁵ I(6.57 h)	1260.409(28.90), 1131.511(22.74), 1678.027(9.62)
1038.8 1	0.29 3	¹⁰⁹ Ru(34.5 s)	206.29(22.0), 225.98(19.6), 1929.05(13.7)
1038.85 25	1.0 3	¹⁶⁵ Tb(2.11 m)	1178.53(13.2), 538.51(7.2), 1292.05(7.0)
1038.9 4	0.25 5	¹²² Cs(21.0 s)	331.1(48), 512.0(3.8), 817.9(3.09)
1038.93 18	0.157 23	¹⁷⁴ Ta(1.05 h)	206.50(58), 91.00(16.0), 1205.92(4.9)
1039.0 2	4.51 18	¹⁰⁹ Sn(18.0 m)	1099.4(30), 649.90(28.0), 1321.3(11.9)
1039	†1.0	¹²⁰ I(81.0 m)	560.44(†137), 1523.0(†21.1), 640.85(†17.1)
1039.0 15	1.1 9	¹⁵¹ Ho(35.2 s)	527.4(63), 775.53(9.2), 209.5(5.69)
1039.0 4	†195 71	¹⁵⁷ Ho(12.6 m)	279.97(†47600), 341.16(†37000), 193.41(†15200)
1039.04 3	6.4 20	⁸⁶ Nb(88 s)	751.74(97.8), 914.81(78.1), 1003.24(37.4)
1039.06 10	0.005 2	²⁹ Al(6.56 m)	1273.367(90.6), 2425.907(5.7), 2028.12(3.7)
1039.1 4	2.2 4	²⁹ S(187 ms)	1383.51(19), 1953.83(17.02), 2422.5(15.5)
1039.1 3	0.89 13	¹⁴⁹ Dy(4.20 m)	100.8(15.2), 789.4(11.8), 1776.3(11.1)
1039.1 1	†0.9 2	¹⁷² Ir(2.0 s)	227.8(†100.0), 378.4(†62.0), 448.4(†40.5)
1039.11 8	0.417 19	⁹⁰ Kr(32.32 s)	1118.69(39.0), 121.82(35.5), 539.49(30.8)
1039.13 15	0.83 7	¹⁸⁶ Ir(2.0 h)	137.155(27), 767.508(21.2), 630.354(18.0)
• 1039.149 100.138 7		¹⁷² Tm(63.6 h)	78.7435(6.5), 1093.657(6.0), 1387.093(5.6)
• 1039.149 100.070 6		¹⁷² Lu(6.70 d)	1093.657(62.5), 900.724(29.8), 181.528(20.6)
1039.20 8	†0.65 5	⁷⁰ Ga(21.14 m)	176.17(†0.29)
1039.20 8	81 3	⁷⁰ As(52.6 m)	1114.1(21.8), 668.3(21.8), 743.56(21.5)
1039.2 5	0.0083 18	¹⁵² Eu(9.274 h)	841.586(14.6), 963.37(12.01), 121.7824(7.21)
1039.2 3	>0.11	²⁴² Np(2.2 m)	735.93(5), 780.44(2.76), 1473.1(2.34)
• 1039.264 6	2.777 25	⁹⁵ Tc(61 d)	204.117(63.25), 582.082(29.96), 835.149(26.63)
1039.30 5	7	⁶⁶ Cu(5.088 m)	833.50(0.16), 1333.00(0.0028), 1872.94(<0.0)
1039.30 5	37	⁶⁶ Ga(9.49 h)	2752.01(23.38), 833.50(5.89), 2189.85(5.60)
1039.3 5	0.17 4	¹⁵⁶ Ho(56 m)	266.35(54.7), 137.83(51), 366.25(10.73)
• 1039.34 6	0.0090 8	⁷¹ As(65.28 h)	174.954(82.00), 1095.490(4.08), 499.876(3.624)
1039.4 2	>0.028	¹⁰⁵ Cd(55.5 m)	961.84(4.69), 346.870(4.20), 1302.459(3.98)
1039.4 3	0.09	¹⁴² La(91.1 m)	641.285(47), 2397.8(13.3), 2542.7(10.00)
1039.5 5	1.5 4	¹¹³ Te(1.7 m)	814.4(22), 1018.1(13.0), 1181.0(12.3)
1039.59 3	0.484 17	⁸⁸ Kr(2.84 h)	2392.11(34.6), 196.301(25.98), 2195.842(13.18)
1039.6 4	0.20 8	³⁰ Al(3.60 s)	2235.24(65), 1263.23(40), 3498.37(32)
1039.6 3	1.34 25	¹⁰⁴ In(1.8 m)	658.0(100), 834.1(99), 878.1(29.4)
1039.6 4	1.0 2	¹³⁰ Sb(6.3 m)	839.49(100), 793.53(86), 182.36(41)
1039.65 15	0.046 9	²²⁸ Ac(6.15 h)	911.205(26.6), 968.971(16.2), 338.322(11.3)
1039.65 15	0.14 3	²²⁸ Pa(22 h)	911.205(4.19), 463.005(1.250), 964.770(4.25)
1039.7 5	†0.36 9	¹⁶⁰ Ho(5.02 h)	728.18(†100), 879.383(†65.9), 962.317(†59.1)
1039.7 3	0.146 21	¹⁸³ Ir(58 m)	392.52(10.4), 228.70(6.9), 87.67(5.6)
1039.7 2	†2.4 3	²⁰¹ Po(15.3 m)	890.1(†100), 240.1(†71.0), 904.2(†54.8)
1039.8 3	1.63 12	¹⁴⁹ Dy(4.20 m)	100.8(15.2), 789.4(11.8), 1776.3(11.1)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
1039.88 ₃	0.668 ₂₁	¹⁵³ Dy(6.4 h)	80.723(11.10), 213.754(10.90), 99.659(10.51)
1039.9 ₈	0.74 ₂₅	¹²¹ Cd(13.5 s)	324.976(49.5), 1040.26(16.8), 349.937(12.9)
1039.9	0.087 ₁₄	¹⁴¹ Ba(18.27 m)	190.328(46.0), 304.194(25.4), 276.948(23.4)
1039.9 ₄	†3.1 ₇	¹⁸⁵ Pt(33.0 m)	229.60(†100), 135.3(†80), 197.4(†74)
1039.902 ₁₇		⁵² Fe(8.275 h)	168.684(99.2), 377.738(1.68)
1039.97 ₅	2.18 ₂₄	⁷⁹ Ga(2.847 s)	464.79(24.2), 516.41(21.5), 1187.28(12.8)
1039.97 ₅	0.48 ₁₂	⁷⁹ Ga(2.847 s)	464.79(24.2), 516.41(21.5), 1187.28(12.8)
1040 ₁	1.66 ₁₁	²⁹ Na(44.9 ms)	54.6(<41), 2560(36), 1638.0(5.9)
1040 ₁	10.6 ₆	³⁰ Na(48 ms)	336(2.65), 1638.0(0.80), 2211.3(0.50)
1040.0 ₅	>7	⁷⁰ As(52.6 m)	1039.20(81), 1114.1(21.8), 668.3(21.8)
1040	0.08 ₃	¹⁴² Ba(10.6 m)	255.300(20.5), 1204.3(14.23), 895.2(13.9)
1040.0 ₅	1.9 ₅	¹⁷⁶ Re(5.3 m)	240.17(48), 109.08(25.0), 848.7(4.0)
1040.01 ₄	9.6 ₃	²⁰⁴ Po(3.53 h)	883.984(29.9), 270.068(27.8), 1016.31(24.1)
1040.02 ₆	6.5 ₇	¹²⁰ I(53 m)	560.44(100), 601.11(87), 614.62(67)
1040.1 ₁	0.341 ₁₄	¹⁴⁶ Ba(2.22 s)	140.7(20.2), 251.2(19.6), 121.2(14.2)
1040.2 ₁	56 ₆	⁸⁴ Y(40 m)	793.3(99), 974.6(75), 660.9(15.7)
1040.2 ₂	†23 ₃	¹⁰³ Mo(67.5 s)	83.4(†100), 423.91(†69), 45.8(†57)
1040.2 ₄	0.12 ₄	¹⁵¹ Dy(17.9 m)	386.10(19.4), 49.46(18.0), 546.31(14.3)
1040.2 ₁₂	0.007 ₃	²⁴⁵ Pu(10.5 h)	327.428(25.4), 560.13(5.4), 308.222(4.9)
1040.25 ₁₀	1.91 ₁₉	¹³⁴ I(52.6 m)	847.025(95.4), 884.090(64.9), 1072.547(15.0)
1040.26 ₁₅	16.8 ₁₀	¹²¹ Cd(13.5 s)	324.976(49.5), 349.937(12.9), 1483.23(8.2)
1040.3 ₂	0.030 ₄	¹¹⁹ I(19.1 m)	257.52(87), 635.86(2.69), 320.53(2.17)
1040.3 ₂	†3.4 ₉	¹⁷¹ Hf(12.1 h)	122.0(†100), 662.2(†83), 347.18(†47)
1040.3 ₅	†5.6 ₁₇	¹⁹⁴ Tl(33.0 m)	428.0(†100), 636.5(†23), 645.20(†13)
1040.4 ₂	9.9 ₆	¹²⁸ La(5.0 m)	284.00(87), 479.24(54), 643.65(14.7)
1040.4 ₅	†1.6 ₄	¹⁴² Xe(1.22 s)	571.83(†100), 657.05(†79), 538.24(†77)
• 1040.4 ₄	0.40 ₄	¹⁴⁷ Gd(38.06 h)	229.32(63), 396.00(34.3), 929.01(20.2)
1040.4 ₂	0.073 ₁₂	¹⁵¹ Nd(12.44 m)	116.80(43.4), 255.68(16.4), 1180.89(14.8)
• 1040.4	2.8×10 ⁻⁶	²⁵³ Es(20.47 d)	41.79(0.050), 389.11(0.0264), 387.1(0.00810)
1040.41 ₁₅	0.0011	²³⁹ U(23.45 m)	74.664(48), 43.533(4.14), 662.24(0.18)
• 1040.43 ₅	0.501 ₅	¹⁵⁶ Eu(15.19 d)	811.79(9.70), 88.9667(8.4), 1230.68(7.98)
• 1040.43 ₅	0.645 ₁₂	¹⁵⁶ Tb(5.35 d)	534.318(66.6), 199.2132(40.9), 1222.36(31.00)
1040.50 ₁₅	0.320 ₂₁	¹⁴⁰ Cs(63.7 s)	602.345(71.1), 908.25(11.6), 1200.25(6.39)
1040.5 ₈	0.0085 ₁₇	¹⁵¹ Tb(17.609 h)	287.357(28.3), 251.863(26.3), 108.088(24.3)
1040.5 ₃	†18 ₄	¹⁹³ Hg(3.80 h)	861.11(†100), 1118.84(†64), 789.21(†36)
1040.58 ₄	1.33 ₆	⁸⁰ Ga(1.697 s)	659.14(78.0), 1083.47(48.4), 1109.36(18.6)
• 1040.6 ₄	0.0018 ₇	¹⁹⁵ Hg(41.6 h)	261.75(30.9), 560.27(7), 387.87(2.15)
1040.63 ₆	3.15 ₂₀	⁹³ Sr(7.423 m)	590.238(67), 875.73(24.1), 888.13(21.8)
1040.65 ₄	1.46 ₄	¹⁴⁹ Tb(4.118 h)	352.24(29.43), 164.98(26.4), 388.57(18.37)
1040.7 ₅	0.07 ₄	⁷⁶ Br(16.2 h)	559.101(74), 657.041(15.9), 1853.67(14.7)
1040.7 ₄	0.50 ₇	¹⁰⁵ In(5.07 m)	131.37(41), 260.21(15.7), 604.11(9.2)
1040.7 ₅	0.13	¹⁵⁴ Pm(1.73 m)	2057.76(17.1), 1393.9(14.4), 81.99(12.6)
1040.7 ₅	0.32	¹⁵⁴ Pm(2.68 m)	184.810(32), 81.99(15.4), 546.66(14.5)
1040.7		¹⁸⁵ Ir(14.4 h)	254.4(13.3), 1828.8(10), 60.0(5.7)
1040.7 ₃	0.24 ₃	¹⁸⁸ Hg(3.25 m)	66.7(63), 190.1(4.40), 82.7(2.6)
1040.7 ₁₀	0.51 ₁₇	¹⁹¹ Hg(50.8 m)	252.5(57), 420.1(18.6), 578.6(17.6)
1040.73 ₆	0.96 ₁₉	¹²⁸ Sb(10.4 m)	753.82(96.4), 743.22(96), 314.12(89)
1040.75 ₉	0.29 ₄	¹⁸³ Os(9.9 h)	1101.94(49.0), 1107.92(22.36), 1034.85(6.02)
1040.8 ₂	0.076 ₁₁	⁶⁹ As(15.2 m)	232.69(11), 145.95(4.96), 86.78(3.44)
1040.8 ₃	0.222 ₂₀	¹⁶³ Yb(11.05 m)	860.28(10.1), 63.62(6.5), 123.21(1.98)
1040.9 ₃	0.158 ₂₅	¹⁶⁷ Lu(51.5 m)	29.66(14.4), 239.22(8.6), 213.19(3.6)
1040.92 ₁₅	0.046 ₉	²²⁸ Ac(6.15 h)	911.205(26.6), 968.971(16.2), 338.322(11.3)
1040.93 ₂₂	0.037 ₃	¹³⁹ Cs(9.27 m)	1283.23(8.3), 627.24(1.78), 1420.66(0.91)
• 1040.99 ₃	0.351 ₁₁	¹⁷² Lu(6.70 d)	1093.657(62.5), 900.724(29.8), 181.528(20.6)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
1041.0 3	0.073 10	¹²³ Xe(2.08 h)	148.9(49), 178.1(14.9), 330.2(8.6)
1041.0 4	0.142 25	¹⁵² Tb(4.2 m)	344.281(20.8), 411.115(18.8), 471.9(12.2)
1041.1 5	1.12 20	¹²¹ In(3.88 m)	60.34(20), 1100.7(0.92), 1121.2(0.51)
1041.2 4	0.056 8	¹⁰¹ Pd(8.47 h)	296.29(19), 590.44(12.06), 269.67(6.43)
1041.21 6	0.53 3	⁸¹ Rb(4.576 h)	190.38(64.0), 446.15(23.2), 510.31(5.3)
1041.278 220.19 7		²⁴⁴ Am(26 m)	1084.181(0.37), 941.95(0.36), 1062.953(0.28)
1041.3 2	9.6 10	⁶⁸ Cu(3.75 m)	1339.96(12.0), 1077.35(12), 152.0(5.5)
1041.3 3	†2.3 4	¹⁸³ Hg(9.4 s)	60.5(†100), 159.91(†21), 172.70(†17)
1041.35 5	3.03 25	¹⁴³ Gd(112 s)	271.94(84), 588.00(15.7), 798.89(10.7)
1041.4 3	2.22 23	¹¹⁸ I(8.5 m)	605.71(99), 600.71(92), 614.42(65)
1041.4 6	0.32 6	¹³⁶ Nd(50.65 m)	108.90(32), 40.2(18.9), 574.8(10.4)
1041.4 3	0.063 17	¹³⁸ Cs(33.41 m)	1435.795(76.3), 462.796(30.7), 1009.78(29.8)
1041.4 2	9 4	¹⁴⁰ Gd(15.8 s)	174.8(76), 749.9(70), 379.0(38)
1041.5 3	18 2	¹³² Sb(4.10 m)	696.8(100), 973.9(100), 150.6(66)
1041.5 6	0.157 16	¹³⁶ Pr(13.1 m)	552.16(76), 539.75(52), 1092.3(18.5)
1041.52 8	7.83 21	¹⁸ Ne(1672 ms)	659.25(0.132), 1700.72(0.056), 1080.51(0.0021)
1041.6 8	0.54 11	²²⁸ Fr(39 s)	473.7(10.2), 474.0(7.6), 410.40(6.3)
1041.7 4	0.16 5	⁹⁹ Sr(0.269 s)	125.118(16.1), 536.12(14.0), 1198.12(9.2)
1041.7 5	0.11 3	¹⁰⁹ Rh(80 s)	326.868(54), 426.135(7.7), 178.034(7.6)
1041.7 3	0.30 4	²¹⁰ At(8.1 h)	1181.39(99.3), 245.31(79), 1483.39(46.5)
1041.7 2	0.032 10	²³⁴ Pa(6.70 h)	131.30(18), 946.00(13.4), 883.24(9.6)
1041.7 2	†1.20×10 ⁻³ 234	²³⁴ Pa(1.17 m)	1001.03(†837000), 766.38(†294000), 742.81(†80000)
• 1041.7 2	0.15 2	²³⁴ Np(4.4 d)	1558.31(18.72), 1527.21(11.2), 1601.80(9.1)
• 1041.7 2	2.2×10 ⁻⁷ 3	²³⁸ Pu(87.74 y)	43.498(0.0395), 99.853(0.00735), 152.720(0.000937)
1041.77 10	0.076 10	⁸⁷ Br(55.60 s)	1419.71(22.0), 1476.04(7.9), 1577.60(6.0)
1041.80 15	0.22 3	⁹¹ Kr(8.57 s)	108.788(43.5), 506.592(19.1), 612.87(7.7)
1041.8 3	0.096 18	¹⁴² Eu(2.34 s)	768.1(10), 1658.1(1.75), 1754.1(1.49)
1041.8 1	9.9 6	¹⁴⁵ Gd(23.0 m)	1757.9(34.2), 1880.6(32.6), 808.4(8.6)
1041.81 5	1.07 8	⁷⁷ Zn(2.08 s)	189.49(28.1), 473.94(19.7), 1832.0(12.4)
1041.9 2	0.215 20	¹⁵⁴ Tb(9.4 h)	123.071(30), 247.925(22.1), 540.18(20)
1041.9 2		¹⁵⁴ Tb(21.5 h)	123.071(26), 1274.436(10.5), 2187.10(9.9)
1041.9 5	0.18 3	²²⁶ Fr(48 s)	253.73(22.3), 186.05(16.3), 253.9(2.5)
1041.91 8	0.355 15	¹⁵¹ Nd(12.44 m)	116.80(43.4), 255.68(16.4), 1180.89(14.8)
1041.95 5	2.54 11	¹⁰⁷ Ru(3.75 m)	194.05(9.9), 847.93(5.3), 462.61(3.66)
1041.95 3	0.028 3	¹⁴⁹ Nd(1.728 h)	211.309(25.9), 114.314(19.2), 270.166(10.7)
1041.99 5	2.19 10	⁹¹ Rb(58.4 s)	93.628(33.7), 2564.19(12.5), 3599.67(10.4)
1042.0 4	0.77 4	⁸⁶ Se(15.3 s)	2441.1(43.0), 2660.0(21.6), 48.3(15.4)
1042.0 10	0.28 7	¹⁰⁵ Cd(55.5 m)	961.84(4.69), 346.870(4.20), 1302.459(3.98)
1042.0 1	3.08 18	¹⁸⁸ Tl(71 s)	412.7(88), 592.0(61), 504.2(23.3)
1042 2	†2.6	²⁴⁴ Bk(4.35 h)	891.5(†100), 217.6(†88), 921.5(†19)
1042.12 15	1.20 10	¹²⁴ In(3.17 s)	1131.64(68), 3214.15(21.5), 997.79(21.1)
1042.3 3	0.101 22	¹⁷⁹ Re(19.5 m)	430.221(28), 289.968(26.9), 1680.244(13.0)
1042.35 23	1.19 11	⁸³ Se(22.3 m)	356.687(70), 510.17(43), 224.8(32.7)
1042.39 8	0.29 3	²⁰⁷ At(1.80 h)	814.41(44.5), 588.33(19.2), 300.654(12.8)
1042.4 8	0.015 5	²⁴⁵ Pu(10.5 h)	327.428(25.4), 560.13(5.4), 308.222(4.9)
1042.6 5	†3.6 7	¹⁰¹ Nb(7.1 s)	276.10(†100), 157.466(†32), 13.5(†32)
1042.6 6	0.25 7	¹⁵⁷ Tm(3.63 m)	455.00(9.3), 385.5(8.8), 348.40(8.4)
1042.66 9	0.138 22	¹⁶³ Tm(1.810 h)	104.320(18.6), 69.229(11.6), 241.305(10.9)
1042.7 4	0.025 15	⁹⁵ Rb(377.5 ms)	352.02(49), 204.02(15.1), 680.7(14.8)
1042.7 5	0.072 21	¹⁰³ Tc(54.2 s)	346.380(17.5), 136.079(16.6), 562.90(7.0)
1042.7 10	0.21 8	¹⁰⁵ Cd(55.5 m)	961.84(4.69), 346.870(4.20), 1302.459(3.98)
1042.7 2	0.55 9	¹⁰⁹ Ru(34.5 s)	206.29(22.0), 225.98(19.6), 1929.05(13.7)
1042.7 4	1.01 8	¹⁶¹ Yb(4.2 m)	78.20(34), 599.88(25.9), 631.45(13.9)
1042.7 5	0.08 8	¹⁷² Ta(36.8 m)	214.02(46), 95.23(17.5), 1109.27(12.4)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
1042.8 3	0.85 14	⁴⁵ Ar(21.48 s)	1020.04(34.0), 3703.2(33.3), 61.35(25.0)
1042.8 10	0.23 5	²⁰¹ Bi(108 m)	629.1(24.0), 936.2(11.3), 1014.1(10.7)
1042.9 3	0.91 23	⁷⁵ Rb(19.0 s)	178.98(<63), 178.97(>51), 187.21(8.7)
1043 1	†8	²³⁸ Pa(2.3 m)	1015.3(†<100), 1014.6(†<100), 635.18(†88)
1043.02 4	0.0082 8	¹³³ La(3.912 h)	278.835(2.50), 302.353(1.648), 290.06(1.413)
1043.05 10	0.81 8	¹⁵⁸ Tm(3.98 m)	192.13(62), 335.10(16.8), 1149.83(7.6)
• 1043.05 4	0.0774 21	¹⁶⁵ Tm(30.06 h)	242.917(35.5), 47.155(16.9), 297.369(12.71)
1043.1 3	0.127 25	¹⁰³ Ag(65.7 m)	118.72(31.2), 148.193(28.3), 266.86(13.3)
1043.1 3	2.6×10 ⁻⁵	¹³⁹ Ba(83.06 m)	165.864(0.23), 1420.5(0.26), 1254.7(0.026)
1043.1 1	0.038 5	¹⁴¹ Pm(20.90 m)	1223.26(4.74), 886.22(2.44), 193.68(1.61)
• 1043.17 13	0.288 11	²⁰⁶ Po(8.8 d)	1032.26(32.9), 511.36(24.1), 286.410(23.8)
1043.2 8	1.6 4	⁶⁹ Ni(11.4 s)	1871.1(40.9), 679.7(39.7), 1213.0(39.3)
1043.2 5	1.8 13	¹⁰⁵ Mo(35.6 s)	85.4(25.0), 76.50(19.3), 147.8(14.8)
• 1043.20 8	0.152 12	¹⁶⁹ Lu(34.06 h)	960.622(23.4), 191.2137(20.6), 1449.74(9.92)
1043.2 8	1.09 22	²²⁸ Fr(39 s)	473.7(10.2), 474.0(7.6), 410.40(6.3)
1043.2 3	0.082 25	²³⁰ Ac(122 s)	454.95(8), 508.20(5.15), 1243.9(3.50)
1043.29 11	0.059 11	¹⁷⁶ Ta(8.09 h)	1159.28(25), 88.34(12), 1224.93(6)
1043.3 2	†2.6 2	⁷⁵ Ga(126 s)	253.0(†100), 574.8(†31.6), 885.6(†11.1)
1043.3 6	0.12 4	⁸⁷ Br(55.60 s)	1419.71(22.0), 1476.04(7.9), 1577.60(6.0)
1043.3 1	0.241 14	¹⁴⁶ Ba(2.22 s)	140.7(20.2), 251.2(19.6), 121.2(14.2)
1043.3 2	0.140 25	¹⁴⁶ La(6.27 s)	258.47(64), 924.58(7.45), 702.28(6.43)
1043.4 6	0.076 22	¹⁶⁷ Lu(51.5 m)	29.66(14.4), 239.22(8.6), 213.19(3.6)
1043.45 20	0.109 18	²⁰⁹ At(5.41 h)	545.0(91), 781.9(83.5), 790.2(63.5)
1043.5 2	†0.46 7	¹⁵⁸ Ho(11.3 m)	218.21(†100.0), 98.91(†70), 945.7(†37)
1043.59 8	1.27 16	²⁰⁴ Bi(11.22 h)	899.15(98), 374.72(82), 984.02(59)
1043.6 4	0.30 3	⁷⁶ Ga(32.6 s)	562.93(66), 545.51(26.0), 1108.41(15.8)
1043.65 7	0.057 3	¹²¹ I(2.12 h)	212.189(84), 532.08(6.07), 598.74(1.47)
1043.7 5	2.70 5	¹⁴² La(91.1 m)	641.285(47), 2397.8(13.3), 2542.7(10.00)
1043.7 3	0.35 6	¹⁴⁹ Dy(4.20 m)	100.8(15.2), 789.4(11.8), 1776.3(11.1)
1043.7 4	0.52 7	¹⁵⁹ Eu(18.1 m)	67.8(19), 78.6(9.1), 95.7(7.0)
• 1043.72 3	1.291 9	²⁰⁵ Bi(15.31 d)	1764.36(1.368), 703.44(31), 987.62(0.585)
1043.75 12	0.007	¹⁸⁴ Ta(8.7 h)	414.03(72), 252.848(43), 920.932(32.0)
1043.8 3	†95 71	¹⁵⁷ Ho(12.6 m)	279.97(†47600), 341.16(†37000), 193.41(†15200)
1043.95	0.24	²⁰³ Bi(11.76 h)	820.3(30), 825.2(14.6), 896.9(13)
1043.96 14	0.076 6	¹⁴¹ Cs(24.94 s)	48.53(7.90), 561.63(4.7), 1194.02(3.95)
• 1044.002 5	27.23 25	⁸² Br(35.30 h)	776.517(83.5), 554.348(70.8), 619.106(43.4)
1044.002 5	0.0008 5	⁸² Rb(1.273 m)	776.517(13), 1395.139(0.471), 698.374(0.133)
1044.002 5	32.068 8	⁸² Rb(6.472 h)	776.517(84), 554.348(62.4), 619.106(37.976)
• 1044.03 10	0.348 12	⁸³ Sr(32.41 h)	762.65(30), 381.53(14.1), 418.37(4.41)
1044.03 9	0.63 7	²⁰⁵ Po(1.66 h)	872.39(37), 1001.21(28.8), 849.83(25.5)
1044.04 6	0.073 11	¹⁸⁹ Pt(10.87 h)	721.41(9.3), 94.33(7.6), 568.84(7.1)
1044.2 1	4.7 3	⁹² Kr(1.840 s)	142.307(64), 1218.6(60), 812.6(14.6)
• 1044.2 5	0.135 21	¹⁴⁷ Gd(38.06 h)	229.32(63), 396.00(34.3), 929.01(20.2)
1044.2 4	0.0085 14	¹⁵¹ Tb(17.609 h)	287.357(28.3), 251.863(26.3), 108.088(24.3)
1044.3 6	0.06 2	⁸⁷ Br(55.60 s)	1419.71(22.0), 1476.04(7.9), 1577.60(6.0)
1044.3 3	0.10 5	¹¹⁹ Ag(2.1 s)	626.4(13), 366.2(12.1), 399.1(10.9)
1044.3	0.006 3	¹⁵¹ Nd(12.44 m)	116.80(43.4), 255.68(16.4), 1180.89(14.8)
1044.30 22	0.00055 10	¹⁶¹ Gd(3.66 m)	360.94(0.59), 314.92(22.7), 102.315(13.9)
1044.32 4	0.58 8	²⁰⁴ At(9.2 m)	684.341(95), 516.318(90), 426.253(67.5)
1044.40 10	0.41 3	⁸⁹ Kr(3.15 m)	220.948(20.1), 586.03(16.6), 904.27(7.2)
1044.4 15	0.006 3	¹⁵⁷ Dy(8.14 h)	326.16(92), 182.20(1.84), 83.01(0.62)
1044.4 4	6.4 3	¹⁷⁰ Ho(2.76 m)	258.2(37.0), 931.3(36.1), 181.6(23.8)
1044.4 2	0.031	²³⁴ Pa(6.70 h)	131.30(18), 946.00(13.4), 883.24(9.6)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
• 1044.4099 δ .237 4		¹⁸² Ta(114.43 d)	67.75001(41.2), 1121.3007(34.9), 1221.4066(26.98)
1044.4099 δ .175 22		¹⁸² Re(12.7 h)	67.75001(38.2), 1121.3007(32), 1221.4066(24.8)
• 1044.4099 δ .285 10		¹⁸² Re(64.0 h)	229.3220(26), 67.75001(22.2), 1121.3007(22.0)
1044.42 20 0.44 9		¹²² In(10.3 s)	1140.55(98), 1001.58(50.7), 1190.58(20.5)
1044.49 0.66 20		³⁵ K(190 ms)	2982.67(50.8), 2589.80(26.4), 1750.6(14.2)
1044.50 15 0.96 10		¹³⁷ Nd(38.5 m)	75.5(17.0), 580.6(13), 306.60(10.0)
1044.5 5 0.19 8		¹⁴⁴ La(40.8 s)	397.440(94.3), 541.20(39.2), 844.8(22.3)
1044.5 10 0.3 2		¹⁸¹ Os(105 m)	238.75(44), 826.77(20), 118.03(12.9)
1044.53 8 \dagger 7.9 6		¹⁸⁴ Ir(3.09 h)	263.97(\dagger 100), 119.80(\dagger 45), 390.38(\dagger 38)
1044.7 2 \dagger 13.8 9		¹²⁹ Ba(2.17 h)	182.30(\dagger 100), 1459.1(\dagger 50.0), 202.38(\dagger 33.7)
1044.7 1 0.064 10		¹⁸¹ Au(11.4 s)	198.60(4.4), 2022.4(4.2), 79.40(4.2)
1044.7 3 \dagger 59 6		¹⁹³ Tl(21.6 m)	324.37(\dagger 100), 676.10(\dagger 48), 1579.3(\dagger 45)
1044.7 4 0.059 18		²¹¹ Rn(14.6 h)	674.1(45), 1362.9(32.5), 678.4(28.9)
1044.72 4 3.5 4		¹²⁵ Cd(0.57 s)	1027.53(25.8), 1173.16(25.1), 736.65(12.6)
• 1044.845 190.0189 16		⁷¹ As(65.28 h)	174.954(82.00), 1095.490(4.08), 499.876(3.624)
1044.88 12 1.7 3		¹²³ Cd(2.10 s)	371.32(51), 1052.28(24.8), 1438.13(8.3)
1044.9 2 0.51 13		⁷⁴ Br(25.4 m)	634.78(64), 219.05(18.1), 634.26(14.1)
1044.9 2 0.36 5		⁷⁴ Br(46 m)	634.78(91), 728.37(35.6), 634.26(16.4)
1044.9 5 0.07 3		⁹⁹ Nb(2.6 m)	97.785(7), 253.50(3.64), 2641.3(3.64)
1044.9 6 1.0 3		¹¹⁶ Cs(3.84 s)	393.5(<0.09), 524.3(76), 615.1(30.4)
1044.9 4 0.27 4		¹²⁷ Sn(2.10 h)	1114.3(39), 1095.6(20), 823.1(10.9)
1045 1 >1.4		¹⁰⁴ Sn(20.8 s)	132.7(56), 912.6(42), 401.2(16.2)
1045.0 0.009 6		¹⁵¹ Nd(12.44 m)	116.80(43.4), 255.68(16.4), 1180.89(14.8)
1045.0 10 0.21 7		¹⁹⁸ Tl(5.3 h)	411.8044(82), 675.8874(11), 636.4(10.1)
• 1045.05 24 0.025 14		¹⁴⁰ La(1.6781 d)	1596.210(95), 487.021(45.5), 815.772(23.28)
1045.08 6 0.018 3		²⁴⁶ Am(25.0 m)	1078.86(27.7), 798.80(25), 1062.04(17.1)
1045.1 3 0.23 6		⁷⁵ Zn(10.2 s)	228.67(28.9), 432.29(20.2), 155.94(17.2)
1045.11 20 0.303 20		¹⁶³ Yb(11.05 m)	860.28(10.1), 63.62(6.5), 123.21(1.98)
• 1045.131 3 1.84 4		¹²⁴ Sb(60.20 d)	602.730(97.8), 1690.980(47.3), 722.786(10.76)
• 1045.131 3 0.42 3		¹²⁴ I(4.18 d)	602.730(60), 1690.980(10.41), 722.786(9.98)
1045.2 7 0.10 4		¹¹¹ Pd(5.5 h)	70.44(8.3), 391.25(5.4), 632.80(3.6)
1045.2 3 0.04 5		¹²⁹ In(0.61 s)	2118.0(45), 1865.0(32), 769.3(9.1)
1045.2 2 0.30 9		¹⁷³ Ta(3.14 h)	172.2(18), 69.70(5.9), 90.3(5.0)
1045.24 9 0.81 4		¹¹⁰ In(4.9 h)	657.7622(98.3), 884.685(92.9), 937.493(68.4)
1045.3 3 0.049 25		²³⁰ Ac(122 s)	454.95(8), 508.20(5.15), 1243.9(3.50)
1045.40 18 0.25 5		¹⁰³ Cd(7.3 m)	1461.81(12), 1448.70(5.55), 1079.90(5.44)
1045.4 6 0.028 6		²¹⁴ Bi(19.9 m)	609.312(44.8), 1764.494(15.36), 1120.287(14.80)
1045.5 3 0.071 20		¹⁸³ Hf(1.067 h)	783.754(66), 73.174(38), 459.069(27)
1045.5 10 0.46 3		¹⁹⁸ Tl(5.3 h)	411.8044(82), 675.8874(11), 636.4(10.1)
1045.58 22 0.011 6		⁷³ Se(39.8 m)	67.03(2.59), 253.70(2.356), 84.0(2.03)
1045.6 10 0.37 19		¹⁴⁹ Er(8.9 s)	1171.0(9.4), 171.5(6.5), 343.9(6.3)
1045.60 15 0.00050 8		¹⁶⁵ Dy(2.334 h)	94.700(3.58), 361.68(0.84), 633.415(0.568)
1045.6 10 0.63 17		¹⁹¹ Hg(50.8 m)	252.5(57), 420.1(18.6), 578.6(17.6)
1045.648 200.170 4		¹⁶⁶ Tm(7.70 h)	778.817(18.9), 2052.36(17.2), 184.410(16.1)
1045.66 6 0.018 3		²⁴⁶ Am(25.0 m)	1078.86(27.7), 798.80(25), 1062.04(17.1)
1045.7 2 0.51 4		⁹⁴ Rb(2.702 s)	1309.1(87), 836.9(87.10), 1577.5(31.8)
1045.7 5 0.93 12		¹²⁸ La(5.0 m)	284.00(87), 479.24(54), 643.65(14.7)
1045.7 2 2.6 3		¹⁵¹ Ho(35.2 s)	527.4(63), 775.53(9.2), 209.5(5.69)
1045.7 4 0.11 5		¹⁸⁵ Au(4.25 m)	310.6(13), 243.1(6.6), 77.7(6)
1045.72 10 1.26 7		¹⁵⁰ Tb(3.48 h)	638.05(72), 496.3(14.8), 792.5(4.39)
1045.73 4 <0.01		⁵² V(3.75 m)	1434.068(100), 1333.649(0.588), 1530.67(0.116)
• 1045.73 4 \dagger <0.04		⁵² Mn(5.591 d)	1434.068(\dagger 100.0), 935.538(\dagger 94.9), 744.233(\dagger 90.6)
1045.83 8 0.0133 16		¹⁰⁶ Rh(29.80 s)	511.842(20), 621.94(9.93), 1050.39(1.56)
1045.83 8 30.4 15		¹⁰⁶ Rh(131 m)	511.842(85), 717.24(28.9), 450.97(24.2)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
• 1045.83 8	29.6 10	¹⁰⁶ Ag(8.28 d)	511.842(88), 717.24(28.9), 450.97(28.2)
1045.873 120.35 4		¹⁵⁰ Pm(2.68 h)	333.971(68), 1324.51(17.5), 1165.739(15.8)
1045.873 120.0083 20		¹⁵⁰ Eu(12.8 h)	333.971(4.0), 406.52(2.81), 1165.739(0.257)
• 1045.873 121.00 7		¹⁵⁰ Eu(35.8 y)	333.971(96), 439.401(80.4), 584.274(52.6)
1045.9	0.28	¹⁴⁸ Dy(3.1 m)	620.24(96), 1247.2(1.4), 178.3(0.5)
1045.9	0.035 18	¹⁴⁹ Tb(4.118 h)	352.24(29.43), 164.98(26.4), 388.57(18.37)
1045.9 3	0.42 3	¹⁷⁷ W(135 m)	115.65(50), 426.98(13.2), 1036.4(10.3)
1045.92 12	1.04 16	¹⁸³ Ir(58 m)	392.52(10.4), 228.70(6.9), 87.67(5.6)
1046		¹³⁰ Pr(40.0 s)	951.9, 499.0, 1405
1046.0 6	0.19 6	¹⁵⁹ Er(36 m)	624.5(33), 649.1(23.4), 205.92(9.7)
1046 1	0.25	¹⁸⁶ Ta(10.5 m)	197.93(50), 214.87(42.3), 510.82(37.5)
• 1046.07 7	0.077 4	¹⁶⁵ Tm(30.06 h)	242.917(35.5), 47.155(16.9), 297.369(12.71)
1046.08 6	1.02 9	¹⁸⁶ Ir(2.0 h)	137.155(27), 767.508(21.2), 630.354(18.0)
1046.1 8	0.038 13	²²⁸ Pa(22 h)	911.205(4.19), 463.005(1.250), 964.770(4.25)
1046.16 6	0.0038 8	¹⁷⁹ Lu(4.59 h)	214.335(11.3), 214.930(0.46), 123.3790(0.45)
1046.3	0.34 4	¹⁴¹ Ba(18.27 m)	190.328(46.0), 304.194(25.4), 276.948(23.4)
1046.3 3	0.16 3	²¹⁰ At(8.1 h)	1181.39(99.3), 245.31(79), 1483.39(46.5)
1046.31 1	0.297 11	¹³⁹ Xe(39.68 s)	218.59(56), 296.53(21.7), 174.97(11.3)
1046.4 5	0.09 3	⁹³ Sr(7.423 m)	590.238(67), 875.73(24.1), 888.13(21.8)
1046.4 2	†1.8 2	¹⁰⁴ Nb(0.92 s)	192.2(†100), 368.4(†20), 620.2(†19.2)
• 1046.4 3	0.090 7	¹³¹ Ba(11.50 d)	496.326(47), 123.805(28.97), 216.078(19.66)
1046.4 4	†0.8 3	¹³¹ Pr(1.53 m)	266.13(†100), 72.82(†64), 387.56(†38)
1046.4 2	1.49 13	¹⁴¹ Sm(10.2 m)	403.8(43), 438.8(37.7), 1292.6(6.8)
1046.40 10	0.043 14	¹⁸⁴ Ta(8.7 h)	414.03(72), 252.848(43), 920.932(32.0)
1046.45 22	0.31 4	²⁰⁴ Po(3.53 h)	883.984(29.9), 270.068(27.8), 1016.31(24.1)
1046.5 3	0.44 4	⁹⁹ Pd(21.4 m)	136.00(73), 263.60(15.2), 673.38(6.9)
1046.5 2	0.0118 17	¹²¹ I(2.12 h)	212.189(84), 532.08(6.07), 598.74(1.47)
1046.5 4	2.8 3	¹³⁰ Sb(6.3 m)	839.49(100), 793.53(86), 182.36(41)
1046.56 3	3.40 21	¹³² La(4.8 h)	464.55(76), 567.14(15.7), 1909.91(9.0)
1046.56 3	5.8 9	¹³² La(24.3 m)	464.55(22), 663.07(11.6), 285.6(7)
1046.57 14	0.120 12	⁹³ Kr(1.286 s)	253.42(41.2), 323.89(24.1), 266.83(20.6)
1046.58 5	†17 1	¹⁰² Tc(4.35 m)	475.070(†115), 628.05(†35.3), 631.28(†21.3)
• 1046.58 5	33.9 20	¹⁰² Rh(2.9 y)	475.070(95), 631.28(55.9), 697.49(43.9)
• 1046.58 5	†0.44 3	¹⁰² Rh(207 d)	475.070(†47), 628.05(†4.6), 1103.16(†2.99)
1046.6 3	0.54 6	¹²¹ Xe(40.1 m)	252.7(13), 132.8(10.9), 445.2(7.7)
• 1046.60 25	0.087 5	¹⁷⁰ Lu(2.00 d)	84.2551(4.256), 1280.25(3.450), 2041.88(1.434)
1046.62 10	0.097 18	²⁴⁰ Np(7.22 m)	554.60(20.9), 597.40(11.7), 1496.9(1.33)
• 1046.68 3	0.134 3	⁵⁷ Ni(35.60 h)	1377.63(81.7), 127.164(16.7), 1919.52(12.26)
1046.7	0.23	¹⁹⁹ Po(4.13 m)	1002.19(19), 1034.3(16), 362.01(7)
• 1046.78 4	0.0120 9	¹⁴³ Ce(33.039 h)	293.266(42.80), 57.356(11.7), 664.571(5.69)
1046.8 10	†3.6 5	⁹³ Tc(43.5 m)	2644.55(†42.7), 943.33(†8.7), 3129.0(†6.4)
1046.8	0.20	¹³³ Pr(6.5 m)	134.3(14), 74.0(10), 315.6(10)
• 1046.8 5	0.043 10	¹⁴⁶ Eu(4.59 d)	747.2(98), 633.03(43), 634.07(37)
1046.9 5	0.18	¹⁴⁰ Sm(14.82 m)	225.5(>10), 225.4(10), 140.0(5.0)
1046.9 2	0.128 15	¹⁶³ Tm(1.810 h)	104.320(18.6), 69.229(11.6), 241.305(10.9)
1046.9 3	0.57 4	¹⁸⁸ Hg(3.25 m)	66.7(63), 190.1(4.40), 82.7(2.6)
1046.99 11	†1.93 19	¹⁸⁸ Au(8.84 m)	265.63(†100), 340.04(†23.9), 605.5(†16.3)
1047.044 200.95 19		¹⁹⁶ Ir(52 s)	355.684(19), 779.630(10.4), 446.613(4.5)
1047.07 6	0.094 6	¹⁴⁵ Ce(3.01 m)	724.33(59), 62.54(13.33), 1148.03(9.15)
1047.1 5	0.34	⁸⁶ Se(15.3 s)	2441.1(43.0), 2660.0(21.6), 48.3(15.4)
1047.1 3	†10.0 6	¹²⁹ Ba(2.17 h)	182.30(†100), 1459.1(†50.0), 202.38(†33.7)
• 1047.177 130.0500 25		¹⁵⁴ Eu(8.593 y)	123.071(40.79), 1274.436(35.19), 723.304(20.22)
1047.177 130.137 20		¹⁵⁴ Tb(9.4 h)	123.071(30), 247.925(22.1), 540.18(20)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
1047.177	130.92 8	¹⁵⁴ Tb(21.5 h)	123.071(26), 1274.436(10.5), 2187.10(9.9)
1047.3 1	†1.57 9	¹⁵⁸ Ho(11.3 m)	218.21(†100.0), 98.91(†70), 945.7(†37)
1047.3 20	7.2 7	²¹² Fr(20.0 m)	1273.8(46), 227.72(43), 1185.6(14.1)
1047.35 8	4.2 3	⁹⁹ Sr(0.269 s)	125.118(16.1), 536.12(14.0), 1198.12(9.2)
1047.4 2	0.90 7	⁶⁵ Ga(15.2 m)	115.09(54), 61.20(11.4), 153.0(8.9)
1047.42 18	0.021 3	⁸⁵ Br(2.90 m)	802.41(2.56), 924.63(1.63), 919.06(0.65)
1047.5 10	0.23 8	⁸⁰ Ga(1.697 s)	659.14(78.0), 1083.47(48.4), 1109.36(18.6)
1047.5 4	3.5 4	¹²⁸ Sb(9.01 h)	753.82(100), 743.22(100), 314.12(61)
1047.5 3	0.111 16	¹⁵³ Dy(6.4 h)	80.723(11.10), 213.754(10.90), 99.659(10.51)
1047.5 5	0.33 4	¹⁸⁶ Ir(16.64 h)	296.911(64.0), 137.155(42), 434.849(34.4)
1047.5 2	†1.2 2	²⁰³ At(7.4 m)	639.4(†100), 641.5(†55.8), 738.1(†38.4)
1047.51 5	0.00225 16	²⁵⁰ Bk(3.217 h)	989.12(45), 1031.85(35.6), 1028.65(4.91)
1047.51 5	0.10	²⁵⁰ Es(2.22 h)	989.12(13.3), 1031.85(10.6), 828.82(5.5)
• 1047.55 10	0.056 6	²⁰⁶ Bi(6.243 d)	803.10(99), 881.01(66.2), 516.18(40.7)
• 1047.570	200.188 5	¹⁴⁸ Eu(54.5 d)	550.284(98.5), 629.987(71.9), 611.293(20.5)
• 1047.57 2	0.05 3	¹⁴⁸ Eu(54.5 d)	550.284(98.5), 629.987(71.9), 611.293(20.5)
• 1047.60 3	1.324 14	¹³¹ Ba(11.50 d)	496.326(47), 123.805(28.97), 216.078(19.66)
1047.6 5	0.70 4	¹³⁷ Pm(2.4 m)	177.5(40.29), 108.6(35), 233.6(29.57)
1047.6 3	0.083 12	¹⁶¹ Er(3.21 h)	826.6(3.0), 211.15(12.2), 592.6(3.7)
1047.62 10	0.0071 7	¹⁵⁹ Ho(33.05 m)	121.012(36.2), 131.973(23.6), 309.594(17.2)
1047.7 4	1.0 2	¹⁰⁴ In(1.8 m)	658.0(100), 834.1(99), 878.1(29.4)
1047.70 4	0.017 5	¹⁸³ Os(13.0 h)	381.768(89.6), 114.463(20.63), 167.844(8.81)
1047.7 3	0.57 4	¹⁸⁸ Hg(3.25 m)	66.7(63), 190.1(4.40), 82.7(2.6)
1047.8 1	†2.6 3	¹⁶⁰ Ho(5.02 h)	728.18(†100), 879.383(†65.9), 962.317(†59.1)
1047.8 1	1.21 15	¹⁶⁰ Ho(25.6 m)	728.18(46.9), 879.383(26.6), 962.317(25.6)
1047.9 5	0.6 3	¹⁰⁵ Tc(7.6 m)	143.26(16), 107.945(14.1), 321.50(11.1)
1047.94 23	0.046 5	⁸¹ Rb(4.576 h)	190.38(64.0), 446.15(23.2), 510.31(5.3)
1048 1	0.02 1	⁸⁷ Zr(1.68 h)	1227(1.0), 1209.8(0.33), 1024(0.28)
1048.0 5	0.32 4	⁹⁶ Rh(9.90 m)	832.57(100), 685.49(95.7), 631.71(74.5)
1048	†2.3	¹⁰⁷ Sn(2.90 m)	1129.2(†100), 678.5(†100), 1540.6(†30)
1048 1	2.8	¹²⁴ Ba(11.9 m)	169.3(20), 1216(12), 188.98(10)
• 1048.073	20†80 3	¹³⁶ Cs(13.16 d)	818.514(†100), 340.547(†42.3), 1235.362(†20.1)
1048.09 9	0.29 5	¹⁹⁹ Pb(90 m)	366.90(44.2), 353.39(9.5), 1135.04(7.8)
1048.1 5	†0.9 5	¹⁵² Tb(17.5 h)	344.281(†1500), 586.294(†223), 271.135(†203)
1048.1 5	0.95 10	²²⁶ Fr(48 s)	253.73(22.3), 186.05(16.3), 253.9(2.5)
1048.11 5	0.68 3	¹⁵¹ Nd(12.44 m)	116.80(43.4), 255.68(16.4), 1180.89(14.8)
1048.14 11	2.25 20	²⁰⁶ At(30.0 m)	700.66(98), 477.10(86), 395.54(48)
1048.2 3	0.062 12	⁸⁹ Kr(3.15 m)	220.948(20.1), 586.03(16.6), 904.27(7.2)
1048.2 4	0.44 22	¹⁷⁰ Ho(2.76 m)	258.2(37.0), 931.3(36.1), 181.6(23.8)
1048.22 29	0.09 4	¹³⁷ Nd(38.5 m)	75.5(17.0), 580.6(13), 306.60(10.0)
1048.30 19	6.2 18	¹¹⁰ Rh(28.5 s)	373.80(91), 546.90(42.4), 687.70(25.8)
1048.31 24	0.92 6	⁹⁵ Y(10.3 m)	954.00(16), 2175.6(7.00), 3576.0(6.4)
1048.4 5	0.095 16	²²⁷ Fr(2.47 m)	90.035(39), 585.804(29.5), 64.267(14.5)
• 1048.44 6	3.19 5	¹¹⁹ Te(4.70 d)	153.59(66), 1212.73(66), 270.53(28.0)
1048.5 5	0.55 5	¹¹⁷ Xe(61 s)	28.5(7.0), 221.3(10.0), 32.3(7.6)
1048.5 3	0.012 6	¹⁶⁷ Yb(17.5 m)	113.34(55.3), 106.18(22.5), 176.25(21)
1048.5 10	0.30 24	¹⁸¹ Os(105 m)	238.75(44), 826.77(20), 118.03(12.9)
1048.5 4	0.30 8	¹⁹³ Hg(11.8 h)	257.97(61), 407.63(25), 573.25(14.2)
1048.6 3	0.044 15	⁹⁵ Rb(377.5 ms)	352.02(49), 204.02(15.1), 680.7(14.8)
1048.6 3	5.3 5	¹²⁷ In(1.09 s)	1597.7(49), 646.1(6.2), 805.1(5.6)
• 1048.6 6	0.069 21	¹⁴⁷ Gd(38.06 h)	229.32(63), 396.00(34.3), 929.01(20.2)
1048.6 3	0.27 3	¹⁸¹ Au(11.4 s)	198.60(4.4), 2022.4(4.2), 79.40(4.2)
1048.61 4	0.0261 12	¹⁹⁴ Ir(19.15 h)	328.455(13.1), 293.545(2.55), 645.157(1.17)
• 1048.61 4	0.85 5	¹⁹⁴ Au(38.02 h)	328.455(60), 293.545(10.2), 1468.91(6.3)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
1048.70 10	0.24 3	⁹⁸ Nb(51.3 m)	787.374(93), 722.645(73.8), 1168.830(17.8)
1048.75 25	0.112 19	¹⁵⁸ Tm(3.98 m)	192.13(62), 335.10(16.8), 1149.83(7.6)
1048.75 12	0.00188 20	¹⁶¹ Gd(3.66 m)	360.94(0.59), 314.92(22.7), 102.315(13.9)
1048.8 5	0.0044 11	⁶³ Zn(38.47 m)	669.62(8), 962.06(6.5), 1412.08(0.75)
1048.8 10	0.29 3	²²⁸ Fr(39 s)	473.7(10.2), 474.0(7.6), 410.40(6.3)
1048.89 15	†2.9 6	¹⁸⁹ Hg(7.6 m)	320.99(†100), 78.21(†63), 565.42(†48)
1048.9 3	0.137 15	¹²³ Xe(2.08 h)	148.9(49), 178.1(14.9), 330.2(8.6)
• 1049.043 255.38 19		¹⁵⁰ Eu(35.8 y)	333.971(96), 439.401(80.4), 584.274(52.6)
1049.1 7	0.72 14	¹²⁸ La(5.0 m)	284.00(87), 479.24(54), 643.65(14.7)
1049.1	†7	¹⁴⁸ Cs(158 ms)	141.7(†100), 687.2(†23), 545.5(†20)
1049.2	0.076 13	¹⁴³ Cs(1.78 s)	195.554(13), 232.421(8.32), 306.424(6.80)
1049.2 4	0.09 4	¹⁴⁶ Ba(2.22 s)	140.7(20.2), 251.2(19.6), 121.2(14.2)
1049.2 1	0.20 3	²⁰⁴ Bi(11.22 h)	899.15(98), 374.72(82), 984.02(59)
1049.2 5	0.064 7	²⁰⁸ At(1.63 h)	686.527(98), 660.040(89), 177.595(48.6)
1049.2 3	1.10 8	²³⁰ Fr(19.1 s)	711.0(13.6), 129.1(11.0), 728.4(7.3)
1049.21 9	87 3	¹⁹⁶ Bi(308 s)	689.00(35.5), 776.6(9.1), 1449.7(6.9)
1049.21 9	†21.1 8	¹⁹⁶ Bi(240 s)	371.93(†20.8), 689.00(†19.2), 59.23(†14.4)
1049.27 25	0.020 6	¹⁹⁵ Hg(9.9 h)	779.80(7), 61.46(6.2), 585.13(1.99)
• 1049.4 1	0.0174 7	¹⁵⁴ Eu(8.593 y)	123.071(40.79), 1274.436(35.19), 723.304(20.22)
1049.48 12	0.142 10	⁸⁸ Kr(2.84 h)	2392.11(34.6), 196.301(25.98), 2195.842(13.18)
1049.5 2	0.089 15	¹⁵¹ Nd(12.44 m)	116.80(43.4), 255.68(16.4), 1180.89(14.8)
1049.6 10	0.29	⁶⁷ As(42.5 s)	122.7(19.2), 120.8(9.3), 243.6(7.8)
1049.6 4	1.17 6	¹⁰⁹ In(4.2 h)	203.5(74), 623.7(5.5), 1148.9(4.3)
1049.6 4	0.046 12	¹³² I(2.295 h)	667.718(99), 772.60(75.6), 954.55(17.6)
1049.6 3	†0.51 21	¹⁹⁴ Bi(92 s)	965.4(†100.0), 575.1(†98.0), 280.1(†73.7)
1049.7 1	98	⁵² Sc(8.2 s)	1267.9(39), 1032.3(13.7), 1214.5(11.7)
1049.7 6	0.081 13	¹¹⁵ Ag(20.0 m)	229.08(18), 212.80(4.4), 472.70(4.0)
1049.7 3	0.050 25	¹⁵² Pm(4.1 m)	121.7824(15.7), 841.586(2.17), 961.06(1.92)
1049.7 4	†8	¹⁵⁴ Nd(25.9 s)	151.703(†800), 799.55(†600), 180.693(†510)
1049.7 13	0.097 18	¹⁶⁷ Lu(51.5 m)	29.66(14.4), 239.22(8.6), 213.19(3.6)
1049.8 1	†1.8 3	¹⁶⁰ Lu(36.1 s)	243.2(†100), 395.4(†21.0), 577.2(†10.7)
1049.82 8	0.346 19	¹⁰¹ Mo(14.61 m)	191.92(19), 590.91(16.4), 1012.47(12.8)
1049.83 4	0.113 6	¹⁵¹ Tb(17.609 h)	287.357(28.3), 251.863(26.3), 108.088(24.3)
1049.87 22	1.53 8	¹⁶⁴ Tm(5.1 m)	208.08(14.6), 314.97(10), 240.49(7.5)
1049.9 1	0.045 3	¹¹³ Ag(5.37 h)	298.58(10), 258.8(1.64), 316.3(1.343)
1049.93 3	1.13 3	¹⁵³ Dy(6.4 h)	80.723(11.10), 213.754(10.90), 99.659(10.51)
1050		⁵⁵ V(6.54 s)	517.71(73), 880.70(18.1), 921.10(4.6)
1050.0 2	†1.8 2	¹⁰⁴ Nb(0.92 s)	192.2(†100), 368.4(†20), 620.2(†19.2)
1050.0 4	0.00020 3	¹⁰⁷ Cd(6.50 h)	93.124(1.45), 828.93(0.17), 796.462(0.0665)
1050 1		¹¹⁹ Te(16.03 h)	644.01(84), 699.85(10.1), 1749.65(3.95)
1050.0	†3.1 10	¹³¹ Ce(10.3 m)	169.42(†100), 414.25(†68), 119.18(†44)
1050	†0.08 1	¹³⁶ Pm(107 s)	373.8(†100), 602.7(†38.4), 857.2(†23.4)
1050.0 3	0.017 7	¹⁵⁵ Dy(9.9 h)	226.918(68.4), 184.564(3.37), 1089.8(>2.8)
1050 1	0.21 11	¹⁶⁴ Tb(3.0 m)	168.838(25.4), 754.80(23.3), 215.07(21)
1050.06 14	1.95 6	¹⁷² Ta(36.8 m)	214.02(46), 95.23(17.5), 1109.27(12.4)
1050.1 4	6.9 6	¹⁷⁶ Tm(1.9 m)	189.57(44.5), 1069.3(34), 381.8(21.8)
1050.11 9	0.042 4	¹¹⁹ I(19.1 m)	257.52(87), 635.86(2.69), 320.53(2.17)
1050.15 4	†1.15 4	¹⁴⁸ Tb(60 m)	784.430(†119.0), 489.049(†28.0), 1079.025(†16.2)
1050.18 28	0.18 4	¹⁷⁴ Ta(1.05 h)	206.50(58), 91.00(16.0), 1205.92(4.9)
1050.2 2	0.34 7	¹⁰⁸ In(58.0 m)	875.46(100), 632.96(100), 242.84(41)
1050.2 1	6.6 5	¹¹⁹ Cd(2.69 m)	292.9(36.8), 343.0(16.9), 1609.7(10.9)
1050.2 2	†100	¹⁵¹ Yb(1.6 s)	1245.6(†100), 624.8(†100), 1332.2(†100)
1050.2 2	†1.7 2	¹⁷² Ir(2.0 s)	227.8(†100.0), 378.4(†62.0), 448.4(†40.5)
1050.2 5	†0.9 4	¹⁹⁸ Tl(1.87 h)	636.4(†202), 411.8044(†202), 587.2(†185)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
1050.21 5	0.00069 8	¹²⁹ Te(69.6 m)	27.81(16.3), 459.60(7.70), 487.39(1.42)
• 1050.21 5	0.0178 14	¹²⁹ Te(33.6 d)	695.88(2.988), 729.57(0.70), 556.65(0.118)
1050.3 2	0.048 11	¹⁰⁷ Ru(3.75 m)	194.05(9.9), 847.93(5.3), 462.61(3.66)
1050.3 2	0.039 10	¹⁶⁷ Yb(17.5 m)	113.34(55.3), 106.18(22.5), 176.25(21)
1050.39 5	1.56 3	¹⁰⁶ Rh(29.80 s)	511.842(20), 621.94(9.93), 616.174(0.75)
1050.39 5	0.167 5	¹⁰⁶ Ag(23.96 m)	511.842(17.0), 621.94(0.316), 873.48(0.199)
• 1050.39 5	0.26 13	¹⁰⁶ Ag(8.28 d)	511.842(88), 1045.83(29.6), 717.24(28.9)
• 1050.40 10	0.99 3	¹⁷⁰ Lu(2.00 d)	84.2551(4.256), 1280.25(3.450), 2041.88(1.434)
1050.43 18	0.59 7	¹⁵¹ Dy(17.9 m)	386.10(19.4), 49.46(18.0), 546.31(14.3)
1050.5 8	0.7 3	¹³¹ Sb(23.03 m)	943.4(47), 933.1(26.1), 642.30(23)
1050.55	0.56 8	⁴⁴ K(22.13 m)	1157.031(58), 2150.76(22.7), 2518.95(9.69)
1050.59 17	†4.7 5	¹⁶⁵ Lu(10.74 m)	132.49(†100), 120.60(†100), 174.25(†47.0)
• 1050.6 2	0.0012 5	⁷¹ As(65.28 h)	174.954(82.00), 1095.490(4.08), 499.876(3.624)
• 1050.6 3	0.113 5	⁸³ Sr(32.41 h)	762.65(30), 381.53(14.1), 418.37(4.41)
1050.6 3	0.034 14	⁹³ Sr(7.423 m)	590.238(67), 875.73(24.1), 888.13(21.8)
1050.6	0.37	¹⁴⁸ Pr(2.27 m)	301.702(61), 1357.78(5.5), 1023.18(4.8)
1050.69 3	81.0 25	¹¹⁸ In(4.45 m)	1229.68(96), 683.08(54.3), 445.99(5.53)
1050.69 3	1.37 14	¹¹⁸ In(8.5 s)	1229.68(1.4), 253.68(1.30), 41.0(0.25)
1050.69 3	97 6	¹¹⁸ Sb(5.00 h)	1229.68(100), 253.68(99), 41.0(30.0)
1050.73 4	6.91 11	⁷² Ga(14.10 h)	834.01(96), 2201.69(25.9), 629.95(24.8)
• 1050.73 4	0.984 21	⁷² As(26.0 h)	834.01(80), 629.95(7.92), 1463.95(1.107)
1050.75 5	2.61 11	⁹⁵ Ru(1.643 h)	336.43(70.2), 1096.76(21.0), 626.77(17.8)
1050.8 3	1.5	¹⁴⁵ La(24.8 s)	70.0(11), 355.8(3.8), 118.2(3.6)
1050.8 3	>1.5	¹⁴⁵ La(24.8 s)	70.0(11), 355.8(3.8), 118.2(3.6)
1050.8 4	0.10 3	¹⁵⁶ Ho(56 m)	266.35(54.7), 137.83(51), 366.25(10.73)
1050.8 3	0.158 23	¹⁸¹ Au(11.4 s)	198.60(4.4), 2022.4(4.2), 79.40(4.2)
1050.9 4	0.33 4	¹⁴⁶ Ba(2.22 s)	140.7(20.2), 251.2(19.6), 121.2(14.2)
1050.95 29	0.0053 7	⁹¹ Mo(15.49 m)	1636.99(0.329), 1581.04(0.226), 2631.97(0.118)
1051.0	0.47 8	⁴⁰ Cl(1.35 m)	1460.830(79), 2839.8(30.4), 2621.5(15.4)
1051.0 5	0.030 15	¹⁵¹ Nd(12.44 m)	116.80(43.4), 255.68(16.4), 1180.89(14.8)
1051.0 5	0.0004 2	¹⁷¹ Er(7.516 h)	308.31(64.4), 295.901(28.9), 111.621(20.5)
1051.0 8	†8.5 19	¹⁹⁵ Pb(15 m)	883.1(†100), 393.7(†42), 871.0(†36)
1051.0 10	0.095 15	²⁰⁸ Rn(24.35 m)	426.78(7.07), 251.05(5.02), 350.026(3.34)
• 1051.0 1	0.0165 19	²³² Pa(1.31 d)	969.315(41.6), 894.351(19.8), 150.059(10.8)
1051.03 11	0.108 16	¹⁷⁶ Ta(8.09 h)	1159.28(25), 88.34(12), 1224.93(6)
1051.1 3	0.050 19	¹³³ Te(12.5 m)	312.072(62), 407.63(27.1), 1333.21(10.67)
1051.2 3	†0.40 6	¹²⁹ Ba(2.17 h)	182.30(†100), 1459.1(†50.0), 202.38(†33.7)
1051.3	3.9	⁴⁴ Ar(11.87 m)	182.6(66), 1703.4(57), 1886.0(31)
1051.3 8	0.0051 17	²⁴⁵ Pu(10.5 h)	327.428(25.4), 560.13(5.4), 308.222(4.9)
1051.4 5	0.32 10	¹¹⁵ Te(5.8 m)	723.569(30), 1380.58(23.0), 1326.83(22.7)
1051.4 2	0.062 10	²³⁴ Pa(6.70 h)	131.30(18), 946.00(13.4), 883.24(9.6)
1051.41 20	0.49 5	¹⁰⁵ In(5.07 m)	131.37(41), 260.21(15.7), 604.11(9.2)
1051.412 5	0.175 3	¹⁴⁵ Pr(5.984 h)	748.278(0.5250), 675.795(0.514), 72.500(0.261)
• 1051.43 8	0.051 6	¹⁵³ Tb(2.34 d)	212.038(31.0), 170.504(6.8), 109.758(6.4)
1051.5 6	0.15 3	¹¹⁷ Cs(8.4 s)	204.8(15.0), 29.7(9.9), 205.6(6.8)
1051.5 5	0.011 3	¹⁵¹ Tb(17.609 h)	287.357(28.3), 251.863(26.3), 108.088(24.3)
1051.5 2	†13	²⁵⁶ Es(7.6 h)	861.8(†100), 231.1(†61), 172.6(†49)
1051.53 4	0.213 8	⁹⁰ Nb(14.60 h)	1129.224(92.7), 2318.968(82.03), 141.178(66.8)
1051.57 15	0.025 8	¹⁵⁷ Eu(15.18 h)	63.929(23.0), 410.723(17.5), 370.509(11.0)
1051.6 5	†0.63 21	¹⁸³ Hg(9.4 s)	60.5(†100), 159.91(†21), 172.70(†17)
1051.6 7	0.55 10	²⁰¹ Bi(108 m)	629.1(24.0), 936.2(11.3), 1014.1(10.7)
1051.7 2	0.47 7	⁷⁶ Ga(32.6 s)	562.93(66), 545.51(26.0), 1108.41(15.8)
1051.7 3	0.075 12	⁹³ Kr(1.286 s)	253.42(41.2), 323.89(24.1), 266.83(20.6)
1051.7 1	3.79 20	¹¹⁷ Cd(2.49 h)	273.349(28), 1303.27(18.4), 344.459(17.9)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
1051.7 1		¹¹⁷ Cd(3.36 h)	1997.33(26), 1065.98(23.1), 564.397(14.7)
1051.7 1	0.239 13	¹⁴³ Cs(1.78 s)	195.554(13), 232.421(8.32), 306.424(6.80)
1051.7 3	2.8 6	¹⁵⁹ Sm(11.37 s)	189.79(46), 861.97(18.2), 254.43(9.8)
• 1051.73 10	0.0033 4	¹⁷¹ Lu(8.24 d)	739.78(47.8), 19.394(13.7), 667.404(11.04)
1051.8 3	0.100 10	¹⁴¹ Pm(20.90 m)	1223.26(4.74), 886.22(2.44), 193.68(1.61)
1051.8 3	†0.48 19	¹⁸⁹ Hg(7.6 m)	320.99(†100), 78.21(†63), 565.42(†48)
1051.90 3	0.067 8	¹³⁵ Ce(17.7 h)	265.56(41.8), 300.07(23.5), 606.76(18.8)
1051.90 11	0.0044 13	¹⁴⁹ Nd(1.728 h)	211.309(25.9), 114.314(19.2), 270.166(10.7)
1051.9 7	0.48 24	¹⁷⁵ Ta(10.5 h)	207.4(14.0), 348.5(12.0), 266.9(10.8)
1051.96 9	1.10 10	¹⁴¹ Xe(1.73 s)	909.23(24.0), 118.705(16.1), 105.937(9.8)
1051.96 3	0.340 14	²¹⁴ Bi(19.9 m)	609.312(44.8), 1764.494(15.36), 1120.287(14.80)
1052.0 2	1.22 20	¹²⁶ Ba(100 m)	233.6(19.6), 257.6(7.6), 241.0(6.0)
1052.0 3	0.20 3	¹⁴¹ Eu(40.0 s)	394.0(9), 384.5(5.6), 382.9(2.97)
1052.0 5	0.057 11	¹⁵¹ Tb(17.609 h)	287.357(28.3), 251.863(26.3), 108.088(24.3)
1052.0	0.11	¹⁵⁹ Er(36 m)	624.5(33), 649.1(23.4), 205.92(9.7)
1052.0 2	0.6 1	¹⁹³ Hg(11.8 h)	257.97(61), 407.63(25), 573.25(14.2)
• 1052.10 4	0.43 3	⁶⁹ Ge(39.05 h)	1107.01(36), 574.17(13.3), 872.14(11.9)
• 1052.11 20	0.034 10	¹⁸⁸ Ir(41.5 h)	155.032(29.7), 2214.62(18.7), 632.99(18)
1052.2 3	0.067 19	¹³⁴ I(52.6 m)	847.025(95.4), 884.090(64.9), 1072.547(15.0)
1052.2 7	0.050 20	¹⁶³ Yb(11.05 m)	860.28(10.1), 63.62(6.5), 123.21(1.98)
1052.28 3	24.8 16	¹²³ Cd(2.10 s)	371.32(51), 1438.13(8.3), 1842.86(7.7)
1052.28 3	0.31 3	¹²³ Cd(1.82 s)	1165.86(25.7), 1027.45(22.6), 2102.81(12.5)
1052.296 210	0.556 13	¹³³ I(20.8 h)	529.872(87.0), 875.329(4.51), 1298.223(2.35)
1052.3 3	†2.9 5	¹⁵² Tb(17.5 h)	344.281(†1500), 586.294(†223), 271.135(†203)
1052.3 3	0.07 4	¹⁵² Tb(4.2 m)	344.281(20.8), 411.115(18.8), 471.9(12.2)
1052.37 13	0.104 15	¹⁶³ Tm(1.810 h)	104.320(18.6), 69.229(11.6), 241.305(10.9)
1052.4 2	0.0093 17	¹²¹ I(2.12 h)	212.189(84), 532.08(6.07), 598.74(1.47)
1052.4 2	0.398 14	¹⁴⁶ Ba(2.22 s)	140.7(20.2), 251.2(19.6), 121.2(14.2)
1052.4 4	0.42 11	¹⁵⁷ Pm(10.56 s)	160.61(35), 188.052(13.5), 571.27(5.39)
1052.4 2	0.12 3	¹⁷³ Ta(3.14 h)	172.2(18), 69.70(5.9), 90.3(5.0)
1052.4 10	0.20 3	²²⁸ Fr(39 s)	473.7(10.2), 474.0(7.6), 410.40(6.3)
1052.45 25	0.09 4	¹⁵⁸ Tm(3.98 m)	192.13(62), 335.10(16.8), 1149.83(7.6)
1052.46 7	0.319 19	⁷⁹ Ga(2.847 s)	464.79(24.2), 516.41(21.5), 1187.28(12.8)
1052.48 16	0.116 12	¹⁹² Au(4.94 h)	316.50791(58.0), 295.95827(22.3), 2236.89(5.6)
1052.5 5	0.18 3	¹⁷⁷ W(135 m)	115.65(50), 426.98(13.2), 1036.4(10.3)
1052.51 19	1.15 6	¹⁰³ Cd(7.3 m)	1461.81(12), 1448.70(5.55), 1079.90(5.44)
1052.54 15	0.0313 11	⁷⁷ Ge(11.30 h)	264.44(54), 211.03(30.8), 215.50(28.6)
1052.6 7	0.38 15	⁹⁶ Sr(1.07 s)	122.297(76.50), 809.401(71.9), 931.7(11.8)
1052.6 2	0.46	¹⁴⁶ Cs(0.343 s)	181.02(57.0), 557.76(9.18), 332.38(6.44)
1052.66 9	0.28 5	¹⁹⁹ Pb(90 m)	366.90(44.2), 353.39(9.5), 1135.04(7.8)
1052.7 1	0.73 17	¹¹⁷ Cd(2.49 h)	273.349(28), 1303.27(18.4), 344.459(17.9)
1052.7 3	2.02 11	¹⁴⁴ La(40.8 s)	397.440(94.3), 541.20(39.2), 844.8(22.3)
1052.7 2	0.043 7	¹⁷⁶ Ta(8.09 h)	1159.28(25), 88.34(12), 1224.93(6)
1052.79 20	†29	¹⁵⁴ Nd(25.9 s)	151.703(†800), 799.55(†600), 180.693(†510)
1052.8 9	0.00031 13	¹³⁹ Ba(83.06 m)	165.864(0.23), 1420.5(0.26), 1254.7(0.026)
1052.8 5	7.4 4	¹⁹⁹ Bi(27 m)	560.1(22.0), 424.85(22), 841.7(11)
1052.86 13	0.31 5	²⁰² Bi(1.72 h)	960.67(99), 422.18(83.7), 657.49(60.6)
1052.96 8	0.112 19	⁹⁸ Nb(51.3 m)	787.374(93), 722.645(73.8), 1168.830(17.8)
1052.96 10	0.21 3	²²⁴ Fr(3.30 m)	215.985(33.1), 131.613(16.3), 836.90(9.8)
1052.99 16	†9.5 14	¹⁸¹ Pt(51 s)	289.29(†100), 111.97(†100), 230.15(†92)
1053.0 3	0.60 10	⁹⁷ Rb(169.9 ms)	167.1(26), 585.2(21.0), 600.5(10.6)
1053.0 10	0.0042 25	¹¹¹ Pd(23.4 m)	580.00(0.8), 70.44(0.78), 1459.0(0.56)
1053.0 5	0.22	¹²⁵ Cd(0.57 s)	1027.53(25.8), 1173.16(25.1), 736.65(12.6)
1053.04 7	0.63 4	¹⁴³ La(14.2 m)	620.3(2.34), 643.75(1.55), 621.4(1.52)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
1053.06 5	0.50 4	¹²⁶ In(1.60 s)	1141.11(55.9), 3344.61(21.6), 969.61(14.9)
1053.09 20	0.014 4	²²⁸ Ac(6.15 h)	911.205(26.6), 968.971(16.2), 338.322(11.3)
1053.09 20	0.020 6	²²⁸ Pa(22 h)	911.205(4.19), 463.005(1.250), 964.770(4.25)
1053.1 2	0.15 3	²³⁰ Ac(122 s)	454.95(8), 508.20(5.15), 1243.9(3.50)
1053.15 20	10.2 6	¹²⁸ La(5.0 m)	284.00(87), 479.24(54), 643.65(14.7)
1053.2	2.0 14	³⁶ Si(0.45 s)	175.0(68), 249.9(68), 878.2(44)
1053.2	†11.8	¹⁵⁸ Ho(21.3 m)	406.14(†100), 838.9(†84.3), 1484.1(†66.2)
• 1053.21	0.13	¹⁴⁶ Eu(4.59 d)	747.2(98), 633.03(43), 634.07(37)
1053.3	0.06 3	¹⁹⁵ Tl(1.16 h)	563.52(10.5), 884.47(10.0), 1363.88(8.4)
1053.3	0.05 3	¹⁹⁵ Tl(1.16 h)	563.52(10.5), 884.47(10.0), 1363.88(8.4)
1053.39 20	0.15 4	¹⁷⁵ Tm(15.2 m)	514.868(65), 941.23(15), 363.942(12.7)
1053.4 1	0.93 8	¹⁰⁹ Ru(34.5 s)	206.29(22.0), 225.98(19.6), 1929.05(13.7)
1053.4 4	0.09 5	¹⁴¹ Eu(40.0 s)	394.0(9), 384.5(5.6), 382.9(2.97)
1053.4 15	0.16 16	¹⁷⁵ Ta(10.5 h)	207.4(14.0), 348.5(12.0), 266.9(10.8)
1053.5 3	9.7 10	¹¹⁴ Rh(1.85 s)	332.9(87), 519.8(48.4), 618.7(31)
1053.5 5	0.09	¹⁴⁰ Sm(14.82 m)	225.5(>10), 225.4(10), 140.0(5.0)
1053.53 29	†1.8	¹⁹⁷ Ir(5.8 m)	469.72(†100), 430.56(†61), 815.92(†45)
1053.6 4	3.5 7	⁹⁷ Pd(3.10 m)	265.26(56), 475.2(26.7), 792.70(13.8)
1053.7 5	0.38	⁴⁵ Ar(21.48 s)	1020.04(34.0), 3703.2(33.3), 61.35(25.0)
1053.70 10	1.59 7	⁸³ Se(70.1 s)	1030.86(21.2), 356.687(18), 987.96(16.1)
1053.70 6	1.49 3	⁸⁸ Br(16.5 s)	775.28(63), 802.14(13.13), 1440.69(4.72)
1053.70 24	1.47 10	⁹⁷ Rh(30.7 m)	421.55(75), 840.13(12.0), 878.80(9.0)
1053.7 3	0.17 6	¹³³ Te(55.4 m)	912.671(55.28), 647.51(19.4), 863.955(15.6)
1053.7 3	†176 33	¹⁵⁷ Ho(12.6 m)	279.97(†47600), 341.16(†37000), 193.41(†15200)
1053.7 5	0.51 19	¹⁵⁷ Tm(3.63 m)	455.00(9.3), 385.5(8.8), 348.40(8.4)
1053.7 3	0.00045 10	¹⁶¹ Gd(3.66 m)	360.94(0.59), 314.92(22.7), 102.315(13.9)
• 1053.7	0.112 22	¹⁷⁰ Lu(2.00 d)	84.2551(4.256), 1280.25(3.450), 2041.88(1.434)
• 1053.77 21	0.96 14	¹⁰⁶ Ag(8.28 d)	511.842(88), 1045.83(29.6), 717.24(28.9)
1053.8 5	3.7 9	⁹⁸ Y(2.0 s)	1223.0(80), 620.505(63), 647.58(53)
1053.8 1	0.55 8	¹¹⁹ Ag(2.1 s)	626.4(13), 366.2(12.1), 399.1(10.9)
1053.9 1	13.7 11	¹⁰⁰ Ag(2.01 m)	665.54(99), 750.67(78), 773.20(24.2)
1053.9 7	0.22 6	¹⁵⁴ Tb(9.4 h)	123.071(30), 247.925(22.1), 540.18(20)
1053.9 7	0.13 6	¹⁵⁴ Tb(21.5 h)	123.071(26), 1274.436(10.5), 2187.10(9.9)
1054.0 5	0.17 7	¹⁰⁹ Ru(34.5 s)	206.29(22.0), 225.98(19.6), 1929.05(13.7)
1054	10	¹²⁰ I(53 m)	560.44(100), 601.11(87), 614.62(67)
• 1054.0 2	0.009 4	¹²⁴ Sb(60.20 d)	602.730(97.8), 1690.980(47.3), 722.786(10.76)
• 1054.0 2	0.121 6	¹²⁴ I(4.18 d)	602.730(60), 1690.980(10.41), 722.786(9.98)
1054.1 3	0.26 13	⁶³ Ga(32.4 s)	637.04(11), 627.10(10.3), 192.94(5.7)
1054.11 20	0.019 6	²²⁸ Ac(6.15 h)	911.205(26.6), 968.971(16.2), 338.322(11.3)
1054.11 20	0.14 4	²²⁸ Pa(22 h)	911.205(4.19), 463.005(1.250), 964.770(4.25)
1054.2 2	1.01 9	⁷⁵ Zn(10.2 s)	228.67(28.9), 432.29(20.2), 155.94(17.2)
1054.2 4	0.63 6	¹⁰⁹ Sn(18.0 m)	1099.4(30), 649.90(28.0), 1321.3(11.9)
1054.22 4	1.07 8	²⁰⁷ At(1.80 h)	814.41(44.5), 588.33(19.2), 300.654(12.8)
• 1054.28 5	0.134 15	¹⁷⁰ Lu(2.00 d)	84.2551(4.256), 1280.25(3.450), 2041.88(1.434)
1054.3 3	100 6	⁹⁰ Tc(49.2 s)	948.1(100), 944.7(36.6), 809.8(34.3)
1054.3 5	0.032 18	¹⁶⁷ Lu(51.5 m)	29.66(14.4), 239.22(8.6), 213.19(3.6)
1054.3 12	0.29 6	¹⁷⁰ Ta(6.76 m)	100.8(21.0), 221.2(15.7), 860.4(7.39)
1054.32 15	0.159 19	¹³⁸ Cs(33.41 m)	1435.795(76.3), 462.796(30.7), 1009.78(29.8)
• 1054.35 24	0.0021 13	¹⁴⁷ Eu(24.1 d)	197.299(27), 121.220(22.9), 677.516(9.8)
1054.4 10	4.4 7	¹⁶⁶ Ta(34.4 s)	158.5(53), 311.8(28.2), 810.1(9.8)
1054.4 3	†1.1 2	¹⁸² Au(21 s)	154.76(†100), 264.33(†40.0), 855.41(†14.5)
1054.4 4	0.087 8	²⁰⁴ Bi(11.22 h)	899.15(98), 374.72(82), 984.02(59)
• 1054.45 10	0.204 6	⁸³ Sr(32.41 h)	762.65(30), 381.53(14.1), 418.37(4.41)
1054.53 7	1.63 9	²⁰⁹ Rn(28.5 m)	408.32(50.3), 745.78(22.8), 337.45(14.5)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
1054.54 ²⁰	0.031 ¹⁰	⁸⁸ Kr(2.84 h)	2392.11(34.6), 196.301(25.98), 2195.842(13.18)
1054.55 ²³	0.106 ¹²	⁹³ Kr(1.286 s)	253.42(41.2), 323.89(24.1), 266.83(20.6)
1054.6 ¹	0.224 ³	⁹¹ Sr(9.63 h)	1024.3(33), 749.8(23.61), 652.9(8.0)
1054.6 ³	3.6 ⁴	¹²⁹ In(0.61 s)	2118.0(45), 1865.0(32), 769.3(9.1)
1054.7 ³	3.7 ⁶	⁷² Br(78.6 s)	862.03(70), 1316.70(17.3), 454.70(13.1)
1054.7 ³	0.059 ¹²	⁹³ Rb(5.84 s)	432.61(17.4), 986.05(6.8), 213.429(6.7)
1054.7 ⁶	0.9 ⁴	¹⁶⁶ Lu(1.41 m)	228.12(15), 102.38(13), 285.07(11.0)
1054.7 ³	0.36 ⁴	¹⁹⁰ Au(42.8 m)	295.78(71.0), 301.82(23.4), 597.67(9.4)
1054.7 ³	†3.2 ³	²⁰¹ Po(15.3 m)	890.1(†100), 240.1(†71.0), 904.2(†54.8)
1054.72 ¹⁰	1.79 ¹⁶	⁶⁸ As(151.6 s)	1015.96(78), 761.61(33.8), 651.12(32.1)
1054.8 ⁴	†14 ³	¹¹¹ Ru(2.12 s)	303.8(†100), 211.7(†77.7), 382.0(†41.3)
• 1054.94 ¹³	0.038 ⁷	¹⁵³ Tb(2.34 d)	212.038(31.0), 170.504(6.8), 109.758(6.4)
1055 ¹		⁷⁷ Ge(11.30 h)	264.44(54), 211.03(30.8), 215.50(28.6)
1055	0.0009	¹⁵⁵ Sm(22.3 m)	104.3346(74.6), 245.771(3.7), 141.4428(1.98)
1055.0 ³	0.058 ⁶	¹⁹² Au(4.94 h)	316.50791(58.0), 295.95827(22.3), 2236.89(5.6)
1055.2	0.0006 ³	²¹⁹ Rn(3.96 s)	271.23(10.8), 401.81(6.37), 130.59(0.119)
• 1055.0 ¹⁰		²³³ U(1.592×10 ⁵ y)	42.44(0.0862), 97.134(0.020), 54.699(0.0182)
• 1055.0 ⁴	0.068 ⁴	²³² Pa(1.31 d)	969.315(41.6), 894.351(19.8), 150.059(10.8)
1055.1	†4.1	¹⁴⁴ Gd(4.5 m)	333.3(†100), 2432.6(†94.8), 629.5(†32.4)
1055.1	0.026 ⁹	¹⁴⁹ Tb(4.118 h)	352.24(29.43), 164.98(26.4), 388.57(18.37)
1055.13 ¹¹	0.34 ³	⁹³ Sr(7.423 m)	590.238(67), 875.73(24.1), 888.13(21.8)
1055.2	0.092 ¹⁸	¹⁴¹ Ba(18.27 m)	190.328(46.0), 304.194(25.4), 276.948(23.4)
• 1055.23	<0.0	¹⁷⁰ Lu(2.00 d)	84.2551(4.256), 1280.25(3.450), 2041.88(1.434)
1055.3 ²	0.7	¹¹⁶ Te(2.49 h)	93.70(31.4), 628.63(3.22), 102.97(1.95)
1055.4 ⁴	5.7 ⁴	⁹⁷ Pd(3.10 m)	265.26(56), 475.2(26.7), 792.70(13.8)
1055.4 ⁴	0.110 ¹⁰	¹⁴³ Ba(14.33 s)	211.475(25), 798.79(15.6), 980.45(11.55)
• 1055.4 ⁴	0.014 ⁶	¹⁷² Lu(6.70 d)	1093.657(62.5), 900.724(29.8), 181.528(20.6)
1055.5 ⁴	0.8 ⁶	¹⁰² Ag(12.9 m)	556.52(91), 719.40(58), 1744.99(17.3)
1055.5 ⁴	0.23 ⁸	¹²⁷ Sn(2.10 h)	1114.3(39), 1095.6(20), 823.1(10.9)
1055.6 ⁶	0.030 ⁸	⁸⁵ Y(4.86 h)	231.67(22.8), 2123.8(5.0), 767.40(3.6)
1055.6 ²	†2.55 ²¹	¹⁸⁵ Hg(21.6 s)	222.8(†100.0), 258.7(†98), 212.5(†58)
1055.6 ⁴	†4.2 ⁵	¹⁹¹ Tl(5.22 m)	452.6(†100), 470.1(†98), 391.6(†96)
1055.761 ³⁰⁰	0.0312 ¹⁶	¹⁶⁵ Dy(2.334 h)	94.700(3.58), 361.68(0.84), 633.415(0.568)
1055.8 ³	0.85 ¹⁰	⁵⁷ Cr(21.1 s)	83.16(8.3), 850.2(8.2), 1752.1(5)
1055.8 ³	0.38 ⁴	¹¹⁸ I(13.7 m)	605.71(86.0), 545.12(10.9), 600.71(10.2)
1055.8	1.1	¹⁴⁷ Ba(0.893 s)	167.4(11), 105.2(4.8), 196.1(4.8)
1055.8	0.12 ⁴	¹⁴⁹ Tb(4.118 h)	352.24(29.43), 164.98(26.4), 388.57(18.37)
1055.8 ³	0.96 ¹²	¹⁵⁴ Ho(11.76 m)	334.6(84), 412.4(15.0), 873.4(12.5)
• 1055.8 ⁴	0.08 ³	¹⁶⁹ Lu(34.06 h)	960.622(23.4), 191.2137(20.6), 1449.74(9.92)
1055.8 ³	0.65 ⁵	¹⁷⁷ W(135 m)	115.65(50), 426.98(13.2), 1036.4(10.3)
• 1055.9 ²	0.0007 ⁴	⁷¹ As(65.28 h)	174.954(82.00), 1095.490(4.08), 499.876(3.624)
• 1056.197 ⁴⁹⁰	0.00101 ¹⁰	⁹⁹ Mo(65.94 h)	739.50(12.1), 181.063(6.08), 140.511(4.52)
1056.2 ⁴	0.105 ¹⁴	¹⁸⁷ Au(8.4 m)	1331.81(7.0), 1408.23(3.06), 914.73(3.02)
1056.2 ²	†0.5 ¹	²⁰³ At(7.4 m)	639.4(†100), 641.5(†55.8), 738.1(†38.4)
1056.2 ²	1.07 ¹⁵	²³² Ac(119 s)	665.0(15.3), 1899(8.9), 1959(5.4)
1056.2 ⁴	0.0059 ¹⁰	²⁵¹ Fm(5.30 h)	880.8(2.19), 453.1(1.45), 405.6(0.99)
1056.23 ⁵	0.00022 ⁶	¹⁸⁷ W(23.72 h)	685.774(27.3), 479.531(21.8), 72.001(11.14)
1056.24 ¹¹	0.466 ²⁴	¹⁴¹ Cs(24.94 s)	48.53(7.90), 561.63(4.7), 1194.02(3.95)
1056.26 ¹⁰	0.172 ²²	¹⁵³ Dy(6.4 h)	80.723(11.10), 213.754(10.90), 99.659(10.51)
1056.4 ⁵	0.37 ⁹	¹¹⁷ Ag(72.8 s)	135.4(23), 337.7(10.3), 157.1(7.9)
1056.4 ⁶	2.1 ⁵	¹⁶⁶ Lu(2.65 m)	228.12(77.3), 337.50(41), 367.95(31.4)
1056.5 ²	3.0 ³	⁸¹ Ge(7.6 s)	335.98(58.9), 792.94(34), 1495.53(19.9)
1056.5 ²	3.1 ³	⁸¹ Ge(7.6 s)	93.10(26), 335.98(12.8), 197.30(12.3)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
1056.55 ²⁵	0.17 ³	²⁰⁴ Bi(11.22 h)	899.15(98), 374.72(82), 984.02(59)
1056.58 ⁷	4	¹⁴³ Sm(8.83 m)	1514.98(1.39), 1173.18(0.88), 1403.06(0.74)
1056.59 ¹²	0.74 ⁴	¹⁰⁷ In(32.4 m)	204.97(47), 505.51(11.9), 320.92(10.2)
1056.6 ⁶	0.184 ²⁰	¹¹⁵ Ag(20.0 m)	229.08(18), 212.80(4.4), 472.70(4.0)
1056.7 ¹	29 ³	¹⁰⁸ In(58.0 m)	875.46(100), 632.96(100), 242.84(41)
1056.7 ³	0.029 ⁴	¹³⁷ Pr(1.28 h)	836.7(1.8), 433.9(1.28), 514.0(1.08)
1056.76 ⁷²	0.07 ³	¹⁴¹ Xe(1.73 s)	909.23(24.0), 118.705(16.1), 105.937(9.8)
1056.79 ²	0.0015 ⁸	⁹⁵ Tc(20.0 h)	765.794(93.82), 1073.71(3.74), 947.67(1.951)
• 1056.79 ²	0.0089 ³	⁹⁵ Tc(61 d)	204.117(63.25), 582.082(29.96), 835.149(26.63)
1056.8 ³	16.5 ¹⁸	¹⁸³ Lu(58 s)	1125.3(25.0), 168.1(7.5), 248.4(5.0)
1056.818 ⁴	99.979 ²	²⁰ O(13.51 s)	3488.16(0.017), 2431.48(0.0059), 2179.02(0.0022)
1056.9 ³	0.039 ¹⁵	⁹⁵ Rb(377.5 ms)	352.02(49), 204.02(15.1), 680.7(14.8)
1057.0 ⁵	0.08	¹⁵⁴ Pm(1.73 m)	2057.76(17.1), 1393.9(14.4), 81.99(12.6)
1057.0 ¹⁰	0.80 ²³	¹⁹¹ Hg(50.8 m)	252.5(57), 420.1(18.6), 578.6(17.6)
1057.0 ⁵	0.112 ¹⁵	²⁰⁸ At(1.63 h)	686.527(98), 660.040(89), 177.595(48.6)
1057.01 ⁴	100	⁸⁸ Nb(14.5 m)	1082.53(103), 671.20(64), 502.91(60)
1057.01 ⁴	89.3 ³⁶	⁸⁸ Nb(7.8 m)	1082.53(53.9), 399.41(45.7), 450.52(26.6)
1057.06 ¹⁰	0.00357 ²⁰	¹⁶¹ Gd(3.66 m)	360.94(0.59), 314.92(22.7), 102.315(13.9)
1057.07 ¹⁴	0.49 ⁵	¹⁰⁵ In(5.07 m)	131.37(41), 260.21(15.7), 604.11(9.2)
1057.08 ²⁶	†0.36 ⁴	⁷¹ Se(4.74 m)	147.50(†21.1), 1095.26(†43.6), 830.33(†43.2)
1057.1 ²	3.27 ²¹	¹⁴¹ Sm(10.2 m)	403.8(43), 438.8(37.7), 1292.6(6.8)
1057.188 ¹⁶³	0.08 ¹³	¹⁸⁶ Ir(16.64 h)	296.911(64.0), 137.155(42), 434.849(34.4)
1057.2 ⁴	0.023 ¹²	⁸⁹ Rb(15.15 m)	1031.94(58), 1248.19(42.6), 2196.02(13.3)
1057.2 ⁴	1.9 ⁶	¹²² In(10.8 s)	1140.55(100), 1001.58(98.4), 103.74(81)
1057.2 ⁵	0.09 ³	¹⁴⁰ Cs(63.7 s)	602.345(71.1), 908.25(11.6), 1200.25(6.39)
1057.2 ²	0.162 ²⁵	¹⁵⁵ Ho(48 m)	240.19(12.5), 136.30(5.00), 45.38(5)
1057.2	†13 ³	¹⁵⁵ Tm(21.6 s)	226.8(†100), 531.7(†20), 88.1(†17)
1057.20 ²⁵	0.30 ¹⁰	¹⁸¹ Re(19.9 h)	365.57(56), 360.70(20), 639.30(6.4)
1057.25 ¹²	0.57 ¹³	¹⁸⁶ Ir(2.0 h)	137.155(27), 767.508(21.2), 630.354(18.0)
1057.29 ¹⁵	†1.5 ⁴	¹⁸⁹ Hg(7.6 m)	320.99(†100), 78.21(†63), 565.42(†48)
1057.3 ⁵	0.025 ⁶	¹⁵¹ Tb(17.609 h)	287.357(28.3), 251.863(26.3), 108.088(24.3)
1057.3 ³	0.57 ¹⁴	¹⁵² Pm(7.52 m)	244.6989(78), 121.7824(45), 340.48(31.3)
1057.3 ²	0.053 ¹⁴	¹⁷³ Ta(3.14 h)	172.2(18), 69.70(5.9), 90.3(5.0)
1057.4 ⁴	0.29 ⁵	¹³⁶ I(83.4 s)	1313.02(67), 1321.08(24.8), 2289.6(10.4)
1057.4 ¹	3.5 ⁴	¹⁹⁰ Au(42.8 m)	295.78(71.0), 301.82(23.4), 597.67(9.4)
• 1057.4 ²	4.5×10 ⁻⁸ ⁷	²³⁹ Pu(24110 y)	51.624(0.007100), 38.661(0.000500), 129.297(0.00631)
1057.5 ³	0.99 ¹³	¹⁰⁰ Cd(49.1 s)	936.55(66), 139.71(6.7), 582.5(6.3)
1057.5 ²	0.89 ¹⁰	¹²¹ Cd(13.5 s)	324.976(49.5), 1040.26(16.8), 349.937(12.9)
1057.6 ²	2.0 ⁴	⁸³ As(13.4 s)	734.60(43), 1113.10(14.7), 2076.70(11.9)
1057.6 ⁵	0.20 ⁵	¹⁶¹ Tm(33 m)	45.54(5.00), 1648.1(9.50), 84.40(9.4)
1057.62 ¹⁰	0.243 ¹⁹	⁹⁸ Nb(51.3 m)	787.374(93), 722.645(73.8), 1168.830(17.8)
• 1057.62 ¹⁰	2.3 ⁴	¹⁴⁶ Eu(4.59 d)	747.2(98), 633.03(43), 634.07(37)
1057.67 ⁴	0.692 ²³	¹⁶⁶ Tm(7.70 h)	778.817(18.9), 2052.36(17.2), 184.410(16.1)
1057.7 ³	0.161 ²⁵	¹⁴⁰ Pm(9.2 s)	773.74(5.0), 477.1(2.6), 1204.8(1.9)
• 1057.70 ¹⁵	0.213 ⁷	¹⁷⁰ Lu(2.00 d)	84.2551(4.256), 1280.25(3.450), 2041.88(1.434)
1057.73 ⁷	†104 ⁹	¹⁶⁴ Tm(2.0 m)	91.40(†1500), 1154.66(†366), 768.91(†279)
1057.75 ²⁰	0.19 ⁴	¹⁶² Tm(21.70 m)	102.00(17.5), 798.68(8.4), 227.52(7)
1057.8 ¹	0.017 ⁵	⁹⁰ Nb(14.60 h)	1129.224(92.7), 2318.968(82.03), 141.178(66.8)
1057.8 ⁴	0.018 ⁹	¹²⁰ Xe(40 m)	25.1(30), 72.6(9), 178.1(6.8)
1057.8 ⁵	0.012 ⁷	¹⁵¹ Nd(12.44 m)	116.80(43.4), 255.68(16.4), 1180.89(14.8)
1057.8 ⁷	3.4 ⁹	¹⁶⁸ Ta(2.0 m)	124.0(35.6), 261.6(22.7), 751.4(7.3)
• 1057.8 ¹	0.29 ³	¹⁷⁷ Ta(56.56 h)	112.9498(7.2), 208.3664(0.94), 745.9(0.207)
1057.8 ³	0.125 ²¹	¹⁸³ Ir(58 m)	392.52(10.4), 228.70(6.9), 87.67(5.6)
1057.8 ¹	0.97 ⁹	¹⁸⁸ Tl(71 s)	412.7(88), 592.0(61), 504.2(23.3)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
1057.8 3	0.018	²³⁴ Pa(6.70 h)	131.30(18), 946.00(13.4), 883.24(9.6)
1057.823 160.524 13		¹⁸³ Os(13.0 h)	381.768(89.6), 114.463(20.63), 167.844(8.81)
1057.9 2	1.73 8	¹⁴⁹ Dy(4.20 m)	100.8(15.2), 789.4(11.8), 1776.3(11.1)
1058.0 3	0.055 13	¹⁵³ Dy(6.4 h)	80.723(11.10), 213.754(10.90), 99.659(10.51)
1058.1	>0.010	²¹⁴ Bi(19.9 m)	609.312(44.8), 1764.494(15.36), 1120.287(14.80)
1058.2 4	†3.3 12	¹³¹ Ce(10.3 m)	169.42(†100), 414.25(†68), 119.18(†44)
1058.3 2	0.054 5	¹¹³ Sb(6.67 m)	497.96(80), 332.41(14.8), 88.25(2.7)
1058.34 18	0.27 4	¹⁵⁴ Tb(9.4 h)	123.071(30), 247.925(22.1), 540.18(20)
1058.34 18	0.83 9	¹⁵⁴ Tb(21.5 h)	123.071(26), 1274.436(10.5), 2187.10(9.9)
1058.39 10	2.3 3	¹¹⁸ Ag(3.76 s)	487.77(60), 677.13(11.9), 2788.7(11.8)
1058.39 10	14.8 16	¹¹⁸ Ag(2.0 s)	487.77(57), 677.13(53), 770.90(11.8)
1058.4 4	0.09	¹⁴² La(91.1 m)	641.285(47), 2397.8(13.3), 2542.7(10.00)
1058.4 1	†0.086 23	¹⁶⁰ Ho(5.02 h)	728.18(†100), 879.383(†65.9), 962.317(†59.1)
1058.5	5.3 3	³⁶ P(5.6 s)	3290.7(100), 901.8(70.4), 1638.2(35.3)
1058.5 4	2.69 22	⁹⁷ Pd(3.10 m)	265.26(56), 475.2(26.7), 792.70(13.8)
1058.5 5	0.9 3	¹⁰⁵ Tc(7.6 m)	143.26(16), 107.945(14.1), 321.50(11.1)
1058.50 20	0.80 7	¹⁵¹ Dy(17.9 m)	386.10(19.4), 49.46(18.0), 546.31(14.3)
1058.5 2	0.09	¹⁸⁵ Au(4.25 m)	310.6(13), 243.1(6.6), 77.7(6)
1058.6 2	3.62 21	⁸¹ Ge(7.6 s)	335.98(58.9), 792.94(34), 1495.53(19.9)
1058.6 8	0.030 16	⁸⁹ Kr(3.15 m)	220.948(20.1), 586.03(16.6), 904.27(7.2)
1058.64 10	†0.10 5	¹⁸⁴ Ir(3.09 h)	263.97(†100), 119.80(†45), 390.38(†38)
• 1058.7 5	0.010 5	¹⁴⁸ Eu(54.5 d)	550.284(98.5), 629.987(71.9), 611.293(20.5)
1058.71 17	0.31 4	⁹³ Kr(1.286 s)	253.42(41.2), 323.89(24.1), 266.83(20.6)
• 1058.71 10	3.9 4	¹⁴⁶ Eu(4.59 d)	747.2(98), 633.03(43), 634.07(37)
• 1058.75 12	0.0118 13	¹⁴⁵ Eu(5.93 d)	893.73(66), 653.512(15.0), 1658.53(14.9)
1058.77	0.10	²⁰³ Bi(11.76 h)	820.3(30), 825.2(14.6), 896.9(13)
1058.78 16	†3.2 7	¹⁸⁹ Hg(7.6 m)	320.99(†100), 78.21(†63), 565.42(†48)
1058.8 4	0.9 3	¹²² Cs(4.5 m)	331.1(94), 497.1(79), 638.5(63)
1058.8 3	0.10 3	¹³⁴ I(52.6 m)	847.025(95.4), 884.090(64.9), 1072.547(15.0)
• 1058.817 160.0246 8		⁷¹ As(65.28 h)	174.954(82.00), 1095.490(4.08), 499.876(3.624)
1058.90 15	0.27 3	⁹¹ Kr(8.57 s)	108.788(43.5), 506.592(19.1), 612.87(7.7)
1058.9 3	0.192 20	¹⁶³ Yb(11.05 m)	860.28(10.1), 63.62(6.5), 123.21(1.98)
1058.9 2	0.108 18	¹⁶⁷ Lu(51.5 m)	29.66(14.4), 239.22(8.6), 213.19(3.6)
1059 1	0.019 19	¹²⁵ Sn(9.52 m)	332.10(97.2), 1404.0(0.70), 589.6(0.20)
1059 3	0.23 8	¹⁸⁵ Ta(49.4 m)	177.59(25.7), 173.68(22.6), 65.86(3.9)
• 1059.041 120.0729 24		¹⁴⁷ Eu(24.1 d)	197.299(27), 121.220(22.9), 677.516(9.8)
1059.1	0.42	¹⁴⁷ Ba(0.893 s)	167.4(11), 105.2(4.8), 196.1(4.8)
1059.1 3	0.191 3	¹⁵³ Dy(6.4 h)	80.723(11.10), 213.754(10.90), 99.659(10.51)
1059.2 5	5.1 5	¹²⁰ I(53 m)	560.44(100), 601.11(87), 614.62(67)
1059.2 15	0.32 10	²²² Fr(14.2 m)	206.15(51), 111.12(12.5), 242.12(1.89)
1059.21 18	†10 4	¹⁰² Y(0.36 s)	151.73(†100), 326.64(†53), 1091.3(†42)
1059.21 18	†29 3	¹⁰² Y(0.30 s)	151.73(†100), 1211.08(†40), 743.01(†17)
1059.3 1	0.84 8	¹⁴³ Gd(112 s)	271.94(84), 588.00(15.7), 798.89(10.7)
1059.3 2		¹⁴⁶ Tb(8 s)	1972.0(12)
1059.38 10	3.86 7	¹⁹⁴ Pb(12.0 m)	581.82(18.8), 1519.45(16.4), 203.82(16.2)
1059.38 5	3.4 4	²⁰⁶ At(30.0 m)	700.66(98), 477.10(86), 395.54(48)
1059.4 3	0.064 12	⁹³ Rb(5.84 s)	432.61(17.4), 986.05(6.8), 213.429(6.7)
1059.4 4	0.019 8	¹¹¹ Sn(35.3 m)	1152.98(2.7), 1914.70(1.99), 761.97(1.48)
1059.4 5	0.41 8	¹²⁶ Ba(100 m)	233.6(19.6), 257.6(7.6), 241.0(6.0)
1059.4 2	†6.0 5	¹³⁶ Pm(107 s)	373.8(†100), 602.7(†38.4), 857.2(†23.4)
1059.4 2	13.7 8	¹³⁶ Pm(107 s)	373.8(15.0), 602.7(12.3), 857.2(12.72)
1059.4 2	†2	¹³⁹ La(2.29 s)	527.7(†100), 571.2(†98), 536.6(†67)
1059.4 8	†1.09×10 ³	²²⁴ Pa(1.17 m)	1001.03(†837000), 766.38(†294000), 742.81(†80000)
1059.435 240.118 6		¹⁸⁰ Re(2.44 m)	902.795(90), 103.557(22.2), 825.357(9.9)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
1059.45 15	0.56 4	²⁰⁹ Rn(28.5 m)	408.32(50.3), 745.78(22.8), 337.45(14.5)
1059.51 7	6.4 4	¹⁰⁰ Y(735 ms)	212.531(73), 118.59(15.4), 665.98(7.7)
1059.55 18	†5.3 8	¹⁸¹ Pt(51 s)	289.29(†100), 111.97(†100), 230.15(†92)
1059.55 21	0.28 4	¹⁸³ Ir(58 m)	392.52(10.4), 228.70(6.9), 87.67(5.6)
1059.6 4	0.014 8	⁶⁶ Ge(2.26 h)	43.89(28.7), 381.85(28), 272.97(10.4)
1059.60 20	0.027 7	¹⁰⁵ Ru(4.44 h)	724.21(47), 469.37(17.5), 676.36(15.7)
• 1059.64 16		²⁰⁶ Bi(6.243 d)	803.10(99), 881.01(66.2), 516.18(40.7)
• 1059.69 4	2.02 5	¹³¹ Te(30 h)	773.67(49.9), 852.21(27.0), 793.75(18.10)
1059.7 7	0.50 10	²⁰¹ Bi(108 m)	629.1(24.0), 936.2(11.3), 1014.1(10.7)
1059.75	0.285 17	²⁴ Al(2.053 s)	1368.633(96.0), 7069.50(43.0), 2754.028(41.2)
1059.8 10	0.013 4	¹¹¹ Pd(23.4 m)	580.00(0.8), 70.44(0.78), 1459.0(0.56)
1059.8 5	0.06 6	¹³³ Te(55.4 m)	912.671(55.28), 647.51(19.4), 863.955(15.6)
1059.80 20	0.14 5	¹⁵⁹ Tm(9.13 m)	38.35(5.8), 84.8(5.8), 271.30(5.1)
1059.9 3	0.017 6	¹³⁹ Cs(9.27 m)	1283.23(8.3), 627.24(1.78), 1420.66(0.91)
1059.92 4	2.72 14	¹²² In(10.3 s)	1140.55(98), 1001.58(50.7), 1190.58(20.5)
1060 2	0.044 22	⁷⁶ Br(16.2 h)	559.101(74), 657.041(15.9), 1853.67(14.7)
1060.0 10	0.28 11	⁹⁷ Rh(46.2 m)	189.21(49), 2245.6(14), 421.55(12.7)
1060	0.18	¹²⁵ Cs(45 m)	526(24), 111.8(9), 412(5)
1060.06 10	0.028 9	¹⁵⁷ Eu(15.18 h)	63.929(23.0), 410.723(17.5), 370.509(11.0)
1060.07 17	0.017 5	¹³⁰ I(12.36 h)	536.09(99), 668.54(96), 739.48(82)
1060.07 6	0.138 6	¹³³ I(20.8 h)	529.872(87.0), 875.329(4.51), 1298.223(2.35)
1060.11 18	0.40 12	²⁰⁴ Bi(11.22 h)	899.15(98), 374.72(82), 984.02(59)
• 1060.13 6	0.136 12	¹⁵³ Tb(2.34 d)	212.038(31.0), 170.504(6.8), 109.758(6.4)
• 1060.22 2	0.0364 13	¹⁴³ Ce(33.039 h)	293.266(42.80), 57.356(11.7), 664.571(5.69)
1060.28 11	1.31 8	¹⁶⁶ Lu(2.65 m)	228.12(77.3), 337.50(41), 367.95(31.4)
1060.28 11	0.55 22	¹⁶⁶ Lu(1.41 m)	228.12(15), 102.38(13), 285.07(11.0)
• 1060.28 4	1.91 6	¹⁶⁹ Lu(34.06 h)	960.622(23.4), 191.2137(20.6), 1449.74(9.92)
1060.3 4	0.27 10	¹²¹ Cs(155 s)	153.9(15.2), 239.6(7.7), 427.1(3.63)
1060.3 4	0.21 8	¹²¹ Cs(122 s)	179.4(30.2), 196.0(24.1), 459.7(12.0)
1060.3 4	0.20 11	¹⁸⁵ Au(4.25 m)	310.6(13), 243.1(6.6), 77.7(6)
1060.3 2	†<45	²³⁸ Pa(2.3 m)	1015.3(†<100), 1014.6(†<100), 635.18(†88)
1060.38 15	0.80 7	¹²⁴ In(3.17 s)	1131.64(68), 3214.15(21.5), 997.79(21.1)
1060.38 22	5.7 8	¹⁸¹ Os(105 m)	238.75(44), 826.77(20), 118.03(12.9)
1060.4 5	0.46 14	¹⁵⁷ Tm(3.63 m)	455.00(9.3), 385.5(8.8), 348.40(8.4)
1060.4 4	0.29 3	¹⁵⁹ Eu(18.1 m)	67.8(19), 78.6(9.1), 95.7(7.0)
1060.5 4	0.012 4	⁶⁶ Ga(9.49 h)	1039.30(37), 2752.01(23.38), 833.50(5.89)
1060.5 8	0.25 3	⁸⁹ Nb(1.9 h)	1627.20(3.4), 1833.46(3.16), 3092.7(3.0)
1060.5 4	0.11 7	²⁰⁵ Po(1.66 h)	872.39(37), 1001.21(28.8), 849.83(25.5)
1060.53 13	0.38 4	⁹³ Kr(1.286 s)	253.42(41.2), 323.89(24.1), 266.83(20.6)
• 1060.58 20	0.246 22	¹⁷⁰ Lu(2.00 d)	84.2551(4.256), 1280.25(3.450), 2041.88(1.434)
• 1060.6 3	0.0018 5	⁷⁶ As(26.32 h)	559.101(45), 657.041(6.2), 1216.104(3.42)
1060.6 2	†6.3 12	¹³¹ Ce(10.3 m)	169.42(†100), 414.25(†68), 119.18(†44)
1060.6 3	†7	¹⁵⁴ Nd(25.9 s)	151.703(†800), 799.55(†600), 180.693(†510)
1060.69 15	0.089 10	⁸⁷ Br(55.60 s)	1419.71(22.0), 1476.04(7.9), 1577.60(6.0)
1060.70 4	7.7 3	⁹⁰ Rb(258 s)	831.69(94), 1375.36(16.7), 3317.00(14.4)
1060.70 4	6.69 22	⁹⁰ Rb(158 s)	831.69(28), 4365.90(5.6), 4135.51(4.70)
1060.7 4	0.78 10	¹²³ Xe(2.08 h)	148.9(49), 178.1(14.9), 330.2(8.6)
• 1060.75 15	0.20 3	⁹⁹ Rh(16.1 d)	528.24(33), 353.05(30.0), 89.65(29.0)
1060.8 10	†9	⁹⁹ Rb(59 ms)	90.8(†100), 125.2(†40), 1071.6(†26)
1060.9 15	0.22 6	⁷⁴ Kr(11.50 m)	89.65(31), 203.0(18.0), 296.67(9.9)
1060.9 10	0.28 11	⁹⁷ Rh(46.2 m)	189.21(49), 2245.6(14), 421.55(12.7)
1060.9 3	0.42 12	¹⁰¹ Zr(2.1 s)	119.3(10.8), 205.6(6.0), 912.2(3.48)
• 1060.92 4	0.044 5	²⁰⁵ Bi(15.31 d)	1764.36(1.368), 703.44(31), 987.62(0.585)
1060.927 150.072 22		¹⁸⁴ Ta(8.7 h)	414.03(72), 252.848(43), 920.932(32.0)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
• 1060.927	150.0026 5	¹⁸⁴ Re(38.0 d)	903.279(37.9), 792.071(37.5), 111.208(17.1)
1060.98 3	†<45	²³⁸ Pa(2.3 m)	1015.3(†<100), 1014.6(†<100), 635.18(†88)
1061.1 2	0.06 6	¹¹⁷ Cd(2.49 h)	273.349(28), 1303.27(18.4), 344.459(17.9)
1061.11 4	0.0235 7	¹⁵⁹ Ho(33.05 m)	121.012(36.2), 131.973(23.6), 309.594(17.2)
• 1061.2 4	0.16 3	¹⁴⁷ Gd(38.06 h)	229.32(63), 396.00(34.3), 929.01(20.2)
1061.25 13	0.103 9	⁹⁸ Nb(51.3 m)	787.374(93), 722.645(73.8), 1168.830(17.8)
1061.3 3	0.090 9	¹²⁰ Xe(40 m)	25.1(30), 72.6(9), 178.1(6.8)
1061.3 4	0.9 3	¹⁵⁶ Tm(83.8 s)	344.55(86), 452.85(17.2), 585.93(14.6)
• 1061.35	0.22 4	¹⁷⁰ Lu(2.00 d)	84.2551(4.256), 1280.25(3.450), 2041.88(1.434)
1061.36 8	0.118 22	¹⁷⁹ Re(19.5 m)	430.221(28), 289.968(26.9), 1680.244(13.0)
1061.39 9	0.137 20	¹⁵⁴ Tb(9.4 h)	123.071(30), 247.925(22.1), 540.18(20)
1061.39 9	4.1 7	¹⁵⁴ Tb(22.7 h)	247.925(79), 346.643(69), 1419.81(46)
• 1061.39 10	0.314 5	¹⁷⁰ Lu(2.00 d)	84.2551(4.256), 1280.25(3.450), 2041.88(1.434)
1061.40 30	0.019 9	¹⁰⁵ Cd(55.5 m)	961.84(4.69), 346.870(4.20), 1302.459(3.98)
1061.4 3	0.156 14	¹⁴⁶ Ba(2.22 s)	140.7(20.2), 251.2(19.6), 121.2(14.2)
• 1061.48 4	0.0528 8	¹⁹² Ir(73.831 d)	316.50791(82.81), 468.07152(47.83), 308.45692(30.00)
1061.48 4	0.928 23	¹⁹² Au(4.94 h)	316.50791(58.0), 295.95827(22.3), 2236.89(5.6)
1061.5 7	0.070 23	¹⁰³ Cd(7.3 m)	1461.81(12), 1448.70(5.55), 1079.90(5.44)
1061.5 4	7.1 7	¹¹⁶ Cs(3.84 s)	393.5(<0.09), 524.3(76), 615.1(30.4)
1061.5 2	0.099 25	¹²⁹ La(11.6 m)	278.6(25), 110.5(16.9), 457.0(8.0)
1061.5 4		¹⁴² La(91.1 m)	641.285(47), 2397.8(13.3), 2542.7(10.00)
1061.59 5	0.243 11	¹⁵¹ Tb(17.609 h)	287.357(28.3), 251.863(26.3), 108.088(24.3)
1061.6 4	0.61 10	¹¹⁵ Te(5.8 m)	723.569(30), 1380.58(23.0), 1326.83(22.7)
1061.6 2	0.085 5	¹³³ La(3.912 h)	278.835(2.50), 302.353(1.648), 290.06(1.413)
1061.6 1	0.062 9	¹⁴⁹ Tb(4.118 h)	352.24(29.43), 164.98(26.4), 388.57(18.37)
1061.6 4	2.69 10	¹⁵⁰ Pr(6.19 s)	130.2(32), 722.5(7.0), 852.7(6.1)
1061.6	†1.5	¹⁵² Tb(17.5 h)	344.281(†1500), 586.294(†223), 271.135(†203)
1061.6 4	0.051 18	¹⁶¹ Er(3.21 h)	826.6(3.0), 211.15(12.2), 592.6(3.7)
1061.6 2	0.029 7	²⁴⁰ Np(7.22 m)	554.60(20.9), 597.40(11.7), 1496.9(1.33)
1061.61 1	1.19 12	¹³³ Te(12.5 m)	312.072(62), 407.63(27.1), 1333.21(10.67)
1061.61 9	0.000762 25	¹⁷⁶ Lu(3.635 h)	88.34(0.55640), 1159.28(0.00139), 201.83(>0.0007)
1061.61 9	0.5	¹⁷⁶ Ta(8.09 h)	1159.28(25), 88.34(12), 1224.93(6)
1061.68 16	0.270 23	¹⁵⁸ Eu(45.9 m)	944.09(25), 977.131(13.6), 79.5104(11)
1061.69 10	5.5 5	⁷² Br(78.6 s)	862.03(70), 1316.70(17.3), 454.70(13.1)
1061.70 5	0.150 3	⁷⁷ Ge(11.30 h)	264.44(54), 211.03(30.8), 215.50(28.6)
1061.7 5	0.20 6	²⁰⁸ At(1.63 h)	686.527(98), 660.040(89), 177.595(48.6)
• 1061.8 3	0.039 8	¹⁵³ Tb(2.34 d)	212.038(31.0), 170.504(6.8), 109.758(6.4)
1061.83 7	0.96 6	¹⁴¹ Cs(24.94 s)	48.53(7.90), 561.63(4.7), 1194.02(3.95)
1061.86 10	†2.29×10 ³	²³⁴ Pa(1.17 m)	1001.03(†837000), 766.38(†294000), 742.81(†80000)
1061.89 6	1.66 17	¹³³ Te(55.4 m)	912.671(55.28), 647.51(19.4), 863.955(15.6)
1061.9 4	0.68 20	⁷⁸ Ga(5.09 s)	619.40(77), 1186.42(20.1), 567.06(18.2)
1061.9 5	0.11 5	¹⁵⁰ Tb(3.48 h)	638.05(72), 496.3(14.8), 792.5(4.39)
1061.9 11	>0.12	¹⁷⁵ Ta(10.5 h)	207.4(14.0), 348.5(12.0), 266.9(10.8)
1061.95 7	†3.6 4	¹⁸⁴ Ir(3.09 h)	263.97(†100), 119.80(†45), 390.38(†38)
1062.0 10	0.050 12	¹²⁷ Ba(12.7 m)	180.8(12), 114.8(9.3), 66.06(2.12)
1062.04 4	17.1 4	²⁴⁶ Am(25.0 m)	1078.86(27.7), 798.80(25), 1036.00(12.6)
• 1062.04 4	2.9 2	²⁴⁶ Bk(1.80 d)	798.80(61), 1081.40(5.8), 833.60(5.0)
1062.09 3	0.386 12	¹⁵⁵ Dy(9.9 h)	226.918(68.4), 184.564(3.37), 1089.8(>2.8)
1062.1 5	†2 1	¹³⁴ Pr(11 m)	293.5(†100), 299.0(†100), 1196.8(†100)
1062.1 5	†2 1	¹³⁴ Pr(17 m)	1964.1(†100), 1904.3(†100), 1579.9(†100)
1062.14 5	0.0320 4	¹⁰⁶ Rh(29.80 s)	511.842(20), 621.94(9.93), 1050.39(1.56)
1062.14 11	†0.64 13	¹⁸⁴ Ir(3.09 h)	263.97(†100), 119.80(†45), 390.38(†38)
1062.17 26	†1.9	¹⁹⁷ Ir(5.8 m)	469.72(†100), 430.56(†61), 815.92(†45)
1062.2 3		¹⁴⁶ Dy(29 s)	2156.8, 1915.7, 1876.7

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
1062.4	>0.010	²¹⁴ Bi(19.9 m)	609.312(44.8), 1764.494(15.36), 1120.287(14.80)
1062.41 2	0.0041 8	¹³⁵ Xe(9.14 h)	249.770(90), 608.151(2.90), 408.009(0.359)
1062.5 6	0.20 5	¹³⁶ Nd(50.65 m)	108.90(32), 40.2(18.9), 574.8(10.4)
1062.5 3	1.01 10	¹⁵¹ Dy(17.9 m)	386.10(19.4), 49.46(18.0), 546.31(14.3)
1062.5 3	†0.23 5	¹⁶⁰ Ho(5.02 h)	728.18(†100), 879.383(†65.9), 962.317(†59.1)
1062.55 15	0.011 3	²²⁸ Ac(6.15 h)	911.205(26.6), 968.971(16.2), 338.322(11.3)
1062.60 10	0.047 16	⁸³ Y(7.08 m)	35.50(0.44), 882.1(6.30), 489.90(5.53)
1062.79 15	0.070 9	²⁰¹ Pb(9.33 h)	331.19(79), 361.27(9.9), 945.96(7.4)
1062.8 2	0.74 15	⁹⁵ Rb(377.5 ms)	352.02(49), 204.02(15.1), 680.7(14.8)
1062.8 2	†1.4	⁹⁶ Rb(0.199 s)	352.02(†700), 204.02(†200), 680.7(†121)
1062.8	0.43	⁹⁵ Sr(23.90 s)	685.6(23), 2717.3(4.6), 2933.1(4.1)
1062.8 3	23.9 16	¹⁰⁹ Sb(17.0 s)	925.4(32), 664.5(20.1), 1495.8(9.6)
1062.8 3	†3.6 9	¹⁷¹ Hf(12.1 h)	122.0(†100), 662.2(†83), 347.18(†47)
1062.8 1	0.248 25	¹⁹⁹ Tl(7.42 h)	455.46(12.4), 208.20597(12.3), 247.26(9.3)
1062.84 18	0.139 20	²⁰² Bi(1.72 h)	960.67(99), 422.18(83.7), 657.49(60.6)
1062.9 3	0.50 14	¹⁰¹ Sr(118 ms)	128.34(18.0), 1124.82(10.9), 510.73(8.5)
1062.9 1	0.19 2	¹⁰⁷ Tc(21.2 s)	102.70(21.0), 177.00(9.2), 106.31(7.6)
1062.9 6	0.36 9	¹⁴⁴ La(40.8 s)	397.440(94.3), 541.20(39.2), 844.8(22.3)
1062.953 180.28 9	0.28 9	²⁴⁴ Am(26 m)	1084.181(0.37), 941.95(0.36), 1041.278(0.19)
1063.0 2	0.308 19	⁹⁸ Nb(51.3 m)	787.374(93), 722.645(73.8), 1168.830(17.8)
1063.0 2	0.210 21	¹³⁶ Pr(13.1 m)	552.16(76), 539.75(52), 1092.3(18.5)
• 1063.0 5		¹⁴⁶ Eu(4.59 d)	747.2(98), 633.03(43), 634.07(37)
1063.0 3	†2.5 5	¹⁵² Tm(8.0 s)	807.9(†100), 715.9(†13), 672.5(†9.5)
1063.0 12	2.0 11	¹⁶⁸ Ta(2.0 m)	124.0(35.6), 261.6(22.7), 751.4(7.3)
1063.0 8	0.017 6	¹⁷⁷ Yb(1.911 h)	150.392(20.3), 1080.21(5.6), 1241.2(3.47)
1063.0 8	†2.9 9	¹⁹¹ Tl(5.22 m)	452.6(†100), 470.1(†98), 391.6(†96)
1063.07 7	†2.50 17	¹⁵⁸ Ho(11.3 m)	218.21(†100.0), 98.91(†70), 945.7(†37)
1063.1 1	0.027 6	⁸⁷ Kr(76.3 m)	402.586(49.6), 2554.8(9.2), 845.43(7.34)
1063.1 4	0.070 16	⁸⁹ Kr(3.15 m)	220.948(20.1), 586.03(16.6), 904.27(7.2)
1063.1 3	0.058 17	¹⁵³ Dy(6.4 h)	80.723(11.10), 213.754(10.90), 99.659(10.51)
1063.14 30	0.13 3	¹⁹⁵ Tl(1.16 h)	563.52(10.5), 884.47(10.0), 1363.88(8.4)
• 1063.19 5	0.0050 10	⁴⁸ V(15.9735 d)	983.517(99.98), 1312.096(97.5), 944.104(7.76)
1063.2	2.36 16	⁴⁰ Cl(1.35 m)	1460.830(79), 2839.8(30.4), 2621.5(15.4)
1063.2 2	2.2 5	⁶³ Ga(32.4 s)	637.04(11), 627.10(10.3), 192.94(5.7)
1063.2 4	†2 1	¹²⁹ Sb(17.7 m)	759.8(†100.0), 657.78(†92), 433.76(†73)
1063.27 18	†5.0 4	¹⁸² Ir(15 m)	273.23(†100), 126.79(†77), 236.3(†21.0)
1063.27 15	0.99 15	¹⁸³ Ir(58 m)	392.52(10.4), 228.70(6.9), 87.67(5.6)
1063.3 3	†267 48	¹⁵⁷ Ho(12.6 m)	279.97(†47600), 341.16(†37000), 193.41(†15200)
1063.3		¹⁹⁹ Po(4.13 m)	1002.19(19), 1034.3(16), 362.01(7)
1063.37 15	1.24 9	¹⁰⁷ In(32.4 m)	204.97(47), 505.51(11.9), 320.92(10.2)
• 1063.380 9	0.156 5	¹⁴⁷ Eu(24.1 d)	197.299(27), 121.220(22.9), 677.516(9.8)
1063.4 7	0.14 8	¹¹¹ Pd(5.5 h)	70.44(8.3), 391.25(5.4), 632.80(3.6)
1063.4 2	0.00072 12	¹⁶¹ Gd(3.66 m)	360.94(0.59), 314.92(22.7), 102.315(13.9)
1063.5 2	0.60 11	¹⁰⁸ In(58.0 m)	875.46(100), 632.96(100), 242.84(41)
1063.50 15	1.09 10	¹²¹ Ag(0.78 s)	314.55(32.1), 353.43(19.9), 500.61(9.3)
1063.5 3	0.13 5	¹²⁹ In(0.61 s)	2118.0(45), 1865.0(32), 769.3(9.1)
1063.5 2	†100	¹⁹⁸ Bi(693 s)	197.6(†80), 562.4(†79), 317.9(†37.5)
1063.64 12	3.57 11	⁸³ Se(70.1 s)	1030.86(21.2), 356.687(18), 987.96(16.1)
• 1063.662 4	74.5 2	²⁰⁷ Bi(31.55 y)	569.702(97.74), 1770.237(6.87), 1442.20(0.130)
1063.662 4		²¹¹ Po(25.2 s)	897.80(1.65), 569.702
1063.70 20	0.145 23	¹⁰³ Tc(54.2 s)	346.380(17.5), 136.079(16.6), 562.90(7.0)
1063.7 2		¹⁰⁶ In(6.2 m)	632.66(100), 861.16(92), 997.87(48)
1063.7 2		¹⁰⁶ In(5.2 m)	632.66(92), 1714.90(17.1), 861.16(10.6)
1063.7 3	0.08 8	¹¹² Ag(3.130 h)	617.27(43), 1387.67(5.4), 606.49(3.1)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
1063.7 4	0.012 6	¹³⁹ Cs(9.27 m)	1283.23(8.3), 627.24(1.78), 1420.66(0.91)
1063.76 3	3.3 2	¹⁰⁰ Nb(1.5 s)	535.60(45.7), 528.24(9.1), 159.547(8.8)
1063.76 3	5.0 10	¹⁰⁰ Nb(2.99 s)	535.60(97.0), 600.5(65.0), 1280.6(23.8)
1063.77 11	0.6 4	¹⁹⁷ Pb(8 m)	385.85(50), 761.14(13.3), 375.48(12.8)
1063.77 11	0.7 4	¹⁹⁷ Pb(43 m)	385.85(74), 387.72(25.1), 222.45(24.6)
1063.8 10	0.07 3	⁹⁹ Pd(21.4 m)	136.00(73), 263.60(15.2), 673.38(6.9)
1063.9 3	†1.4 2	¹⁰⁴ Nb(0.92 s)	192.2(†100), 368.4(†20), 620.2(†19.2)
• 1063.9 2	0.9 6	¹²⁶ Sb(12.46 d)	695.03(100), 666.331(100), 414.81(83.3)
1063.9 2	0.51 9	¹²⁶ Sb(19.15 m)	414.81(86), 666.331(86), 695.03(82)
• 1063.90 15	0.025 5	²⁰⁵ Bi(15.31 d)	1764.36(1.368), 703.44(31), 987.62(0.585)
1064.0 10	0.12 6	⁸⁹ Br(4.40 s)	1097.82(6.00), 997.93(4.26), 953.53(4.26)
1064.0 7	0.171 21	¹⁴⁰ Cs(63.7 s)	602.345(71.1), 908.25(11.6), 1200.25(6.39)
1064.0 2	0.062 7	¹⁵¹ Nd(12.44 m)	116.80(43.4), 255.68(16.4), 1180.89(14.8)
1064.0 10	0.144 15	²⁰⁵ At(26.2 m)	719.30(31), 669.41(8.6), 628.88(5.6)
1064.03 12	0.086 11	¹⁷⁶ Ta(8.09 h)	1159.28(25), 88.34(12), 1224.93(6)
1064.08 10	0.714 25	¹⁰³ Ag(65.7 m)	118.72(31.2), 148.193(28.3), 266.86(13.3)
1064.1 3	0.40 5	⁹² Ru(3.65 m)	213.81(96), 259.32(92), 134.57(65.5)
1064.1 6	0.092 14	¹¹⁵ Ag(20.0 m)	229.08(18), 212.80(4.4), 472.70(4.0)
1064.1 3	0.07 1	¹⁴³ La(14.2 m)	620.3(2.34), 643.75(1.55), 621.4(1.52)
1064.11 10	5.5 5	⁸³ Se(22.3 m)	356.687(70), 510.17(43), 224.8(32.7)
1064.2 3	0.21 3	¹⁰¹ Mo(14.61 m)	191.92(19), 590.91(16.4), 1012.47(12.8)
• 1064.2 4	0.0013 3	¹⁷¹ Lu(8.24 d)	739.78(47.8), 19.394(13.7), 667.404(11.04)
1064.2	0.20	¹⁸⁵ Ir(14.4 h)	254.4(13.3), 1828.8(10), 60.0(5.7)
1064.26 8	1.99 22	¹²⁵ Cd(0.57 s)	1027.53(25.8), 1173.16(25.1), 736.65(12.6)
1064.3 4	0.66 7	¹²³ Xe(2.08 h)	148.9(49), 178.1(14.9), 330.2(8.6)
1064.3 3	0.30 24	¹⁸¹ Os(105 m)	238.75(44), 826.77(20), 118.03(12.9)
1064.3 4	†7.1 5	¹⁹³ Tl(21.6 m)	324.37(†100), 1044.7(†59), 676.10(†48)
1064.32 6	0.0051 8	¹⁷³ Hf(23.6 h)	123.672(83), 296.974(33.9), 139.634(12.7)
1064.32 4	0.95 12	²⁰⁴ Bi(11.22 h)	899.15(98), 374.72(82), 984.02(59)
1064.37 9	0.37 3	⁹³ Sr(7.423 m)	590.238(67), 875.73(24.1), 888.13(21.8)
1064.4 21	0.04 4	¹⁷⁵ Tm(15.2 m)	514.868(65), 941.23(15), 363.942(12.7)
1064.42 6	0.74 6	⁹⁵ Ru(1.643 h)	336.43(70.2), 1096.76(21.0), 626.77(17.8)
1064.47 3	0.153 17	¹⁹¹ Au(3.18 h)	586.45(17), 277.88(7.2), 674.19(6.8)
1064.5 5	0.15 5	²⁰⁸ At(1.63 h)	686.527(98), 660.040(89), 177.595(48.6)
1064.54 7	0.898 19	¹⁴² Cs(1.70 s)	359.598(27.2), 1326.46(12.92), 966.89(9.0)
1064.6 2	0.38 8	⁸³ Se(22.3 m)	356.687(70), 510.17(43), 224.8(32.7)
1064.6 2	0.24	¹¹⁶ Te(2.49 h)	93.70(31.4), 628.63(3.22), 102.97(1.95)
1064.6 7	0.39 8	¹²⁷ Sn(2.10 h)	1114.3(39), 1095.6(20), 823.1(10.9)
1064.6 2	>0.06	¹⁴⁶ La(6.27 s)	258.47(64), 924.58(7.45), 702.28(6.43)
1064.6 2	†5.38 20	¹⁵⁸ Ho(11.3 m)	218.21(†100.0), 98.91(†70), 945.7(†37)
1064.62 7	0.79 7	¹⁴¹ Xe(1.73 s)	909.23(24.0), 118.705(16.1), 105.937(9.8)
1064.7 5	0.98 4	¹³⁷ Pm(2.4 m)	177.5(40.29), 108.6(35), 233.6(29.57)
1064.7 1	0.81 17	¹⁴⁶ Ba(2.22 s)	140.7(20.2), 251.2(19.6), 121.2(14.2)
1064.7 3	9.5 11	¹⁸⁰ Ir(1.5 m)	276.4(56), 132.2(38.1), 699.0(13.4)
1064.75 15	0.075 10	⁸⁷ Br(55.60 s)	1419.71(22.0), 1476.04(7.9), 1577.60(6.0)
1064.80 6	0.69 4	⁸⁰ Ga(1.697 s)	659.14(78.0), 1083.47(48.4), 1109.36(18.6)
1064.8 3	0.50 12	¹¹⁹ Ag(2.1 s)	626.4(13), 366.2(12.1), 399.1(10.9)
1064.8 5	0.51 23	¹⁵⁷ Tm(3.63 m)	455.00(9.3), 385.5(8.8), 348.40(8.4)
1064.8 3	†1.19 24	¹⁸⁹ Hg(7.6 m)	320.99(†100), 78.21(†63), 565.42(†48)
1064.85 5	4.7 3	¹²⁶ In(1.64 s)	1141.11(100), 908.58(99), 111.79(88)
1064.896 200.048 4		⁶¹ Cu(3.333 h)	282.956(12.2), 656.008(10.77), 67.412(4.23)
1064.9 5	0.13 4	⁸⁰ As(15.2 s)	666.14(42), 1644.8(7.5), 1207.12(4.3)
1064.9 20	0.31 5	¹⁹⁶ Tl(1.84 h)	426.0(84), 610.5(11.9), 635.5(9.8)
1065 1	0.037 9	⁹⁸ Nb(51.3 m)	787.374(93), 722.645(73.8), 1168.830(17.8)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
1065.0 4	0.037	¹⁶¹ Er(3.21 h)	826.6(3.0), 211.15(12.2), 592.6(3.7)
1065.0 2	0.32 4	²³⁶ Pa(9.1 m)	642.35(37.0), 687.59(9.9), 1762.7(6.0)
1065.04 8	0.09	¹⁷⁴ Tm(5.4 m)	366.526(92), 992.128(87), 272.918(86)
• 1065.04 8	0.0164 21	¹⁷⁴ Lu(3.31 y)	76.471(5.9), 1241.847(5.14), 1318.296(0.035)
1065.07 8	1.55 12	¹⁵⁸ Tm(3.98 m)	192.13(62), 335.10(16.8), 1149.83(7.6)
• 1065.09 5	0.47 4	¹⁶⁹ Lu(34.06 h)	960.622(23.4), 191.2137(20.6), 1449.74(9.92)
1065.1 1	1.28 8	⁷³ Ga(4.86 h)	297.32(79.8), 325.70(11.17), 739.42(4.23)
1065.1 1	0.027 7	²³⁴ Pa(6.70 h)	131.30(18), 946.00(13.4), 883.24(9.6)
• 1065.15 5	4.922 19	¹⁵⁶ Eu(15.19 d)	811.79(9.70), 88.9667(8.4), 1230.68(7.98)
• 1065.15 5	10.77 5	¹⁵⁶ Tb(5.35 d)	534.318(66.6), 199.2132(40.9), 1222.36(31.00)
1065.17 5	0.136 11	²²⁸ Ac(6.15 h)	911.205(26.6), 968.971(16.2), 338.322(11.3)
1065.17 5	0.081 6	²²⁸ Pa(22 h)	911.205(4.19), 463.005(1.250), 964.770(4.25)
1065.2	0.43	¹⁴⁸ Pr(2.27 m)	301.702(61), 1357.78(5.5), 1023.18(4.8)
1065.3 4	0.131 17	¹⁶³ Yb(11.05 m)	860.28(10.1), 63.62(6.5), 123.21(1.98)
1065.32 20	0.0025 12	¹³⁹ Pr(4.41 h)	1347.33(0.47), 1630.67(0.343), 255.11(0.236)
1065.43 6	0.0159 11	¹⁵⁹ Ho(33.05 m)	121.012(36.2), 131.973(23.6), 309.594(17.2)
1065.49 3	2.75 22	¹³³ Sb(2.5 m)	1096.22(43.0), 817.8(18.5), 2755(12.5)
1065.5 3	0.57 8	¹²¹ Cs(122 s)	179.4(30.2), 196.0(24.1), 459.7(12.0)
1065.5 5	0.030	¹⁴⁰ Sm(14.82 m)	225.5(>10), 225.4(10), 140.0(5.0)
1065.5 3	0.041 16	²³⁰ Ac(122 s)	454.95(8), 508.20(5.15), 1243.9(3.50)
1065.55 6	80000	¹¹⁹ In(18.0 m)	1249.71(†44000), 1163.85(†32000), 1089.9(†15000)
1065.55 7	1.70 9	²⁰⁹ Rn(28.5 m)	408.32(50.3), 745.78(22.8), 337.45(14.5)
1065.60 20	0.131 19	¹⁰³ Tc(54.2 s)	346.380(17.5), 136.079(16.6), 562.90(7.0)
1065.6 5	0.112 21	¹⁸⁷ Au(8.4 m)	1331.81(7.0), 1408.23(3.06), 914.73(3.02)
1065.72 16	0.41 3	¹⁶⁴ Lu(3.14 m)	123.3(34.0), 740.52(12.2), 262.22(10.8)
1065.77 5	1.8 3	¹⁸⁰ Lu(5.7 m)	407.94(43.0), 1199.7(24.3), 1106.00(22.7)
1065.8 1	†0.64 9	¹⁶⁰ Ho(5.02 h)	728.18(†100), 879.383(†65.9), 962.317(†59.1)
1065.85 15	0.0007	²³⁹ U(23.45 m)	74.664(48), 43.533(4.14), 662.24(0.18)
1065.9 4	0.16 3	¹⁰¹ Mo(14.61 m)	191.92(19), 590.91(16.4), 1012.47(12.8)
1065.98 3	23.1 5	¹¹⁷ Cd(3.36 h)	1997.33(26), 564.397(14.7), 1432.91(13.4)
• 1065.98 4	0.109 5	²⁰⁵ Bi(15.31 d)	1764.36(1.368), 703.44(31), 987.62(0.585)
1066.0 3	0.27 8	¹²² In(10.3 s)	1140.55(98), 1001.58(50.7), 1190.58(20.5)
1066.00 16	0.45 5	¹⁵⁰ Pm(2.68 h)	333.971(68), 1324.51(17.5), 1165.739(15.8)
1066.0 3	8.1 5	¹⁷¹ Re(15.2 s)	568.4(16.1), 102.0(9.7), 434.9(7.6)
1066.0 3	0.046 17	¹⁹² Au(4.94 h)	316.50791(58.0), 295.95827(22.3), 2236.89(5.6)
1066.1 5	0.174 8	¹⁴³ Ba(14.33 s)	211.475(25), 798.79(15.6), 980.45(11.55)
1066.20 9	0.6	¹⁷⁶ Ta(8.09 h)	1159.28(25), 88.34(12), 1224.93(6)
1066.22 12	0.00144 15	¹⁶¹ Gd(3.66 m)	360.94(0.59), 314.92(22.7), 102.315(13.9)
1066.23 9	†2.25 16	¹⁸⁴ Ir(3.09 h)	263.97(†100), 119.80(†45), 390.38(†38)
1066.3 4	0.062 17	⁹⁴ Y(18.7 m)	918.74(56), 1138.88(6.0), 550.88(4.9)
• 1066.3 3	0.10 3	¹¹⁹ Te(4.70 d)	153.59(66), 1212.73(66), 270.53(28.0)
1066.3 3	0.09 3	¹³³ Ce(4.9 h)	477.22(39), 510.36(20.7), 58.39(19.2)
1066.3	0.6	¹⁴⁵ Ba(4.31 s)	96.6(17), 91.9(7), 65.9(5)
1066.3 2	0.039	¹⁸⁵ Au(4.25 m)	310.6(13), 243.1(6.6), 77.7(6)
1066.3 4	0.22 3	¹⁹⁸ Tl(5.3 h)	411.8044(82), 675.8874(11), 636.4(10.1)
1066.37 9	0.26 5	¹⁷⁴ Ta(1.05 h)	206.50(58), 91.00(16.0), 1205.92(4.9)
1066.38 2	0.63 4	¹⁴⁵ Cs(0.594 s)	175.36(20), 198.93(10.9), 112.46(10.71)
1066.48 20	1.35 13	⁹⁹ Sr(0.269 s)	125.118(16.1), 536.12(14.0), 1198.12(9.2)
1066.49 8	0.197 17	¹⁶³ Tm(1.810 h)	104.320(18.6), 69.229(11.6), 241.305(10.9)
1066.55 27	1.4 3	¹⁶⁴ Tm(5.1 m)	208.08(14.6), 314.97(10), 240.49(7.5)
1066.57 6	0.18 10	¹⁵¹ Nd(12.44 m)	116.80(43.4), 255.68(16.4), 1180.89(14.8)
1066.57 6	0.030 15	¹⁵¹ Nd(12.44 m)	116.80(43.4), 255.68(16.4), 1180.89(14.8)
1066.6 2	0.054 9	¹³⁷ Xe(3.818 m)	455.490(31), 848.95(0.62), 1783.43(0.415)
1066.6	0.101 18	¹⁴¹ Ba(18.27 m)	190.328(46.0), 304.194(25.4), 276.948(23.4)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
• 1066.60 ₂₀	0.048 ₉	¹⁵³ Tb(2.34 d)	212.038(31.0), 170.504(6.8), 109.758(6.4)
• 1066.75 ₃	0.390 ₉	¹⁴⁸ Eu(54.5 d)	550.284(98.5), 629.987(71.9), 611.293(20.5)
1066.8 ₃	†37 ₄	⁸⁷ Nb(2.6 m)	200.95(†100), 470.63(†73), 1884.5(†35)
1066.8 ₁₀	0.05 ₃	¹²⁹ Sb(4.40 h)	812.8(43), 914.6(20.0), 544.7(17.9)
1066.8 ₃	0.006 ₃	¹³¹ Te(25.0 m)	149.716(69), 452.323(18.18), 1146.96(4.95)
1066.8 ₃	0.013 ₄	¹³⁷ Pr(1.28 h)	836.7(1.8), 433.9(1.28), 514.0(1.08)
1066.8 ₃		¹⁴⁶ Dy(29 s)	2156.8, 1915.7, 1876.7
1066.88 ₂₄	0.070 ₁₃	¹⁴¹ Cs(24.94 s)	48.53(7.90), 561.63(4.7), 1194.02(3.95)
1066.9 ₃	0.0067 ₁₇	¹³⁵ Ce(17.7 h)	265.56(41.8), 300.07(23.5), 606.76(18.8)
1066.9 ₃	3.12 ₈	¹⁷⁷ W(135 m)	115.65(50), 426.98(13.2), 1036.4(10.3)
1066.9 ₈	0.028 ₁₁	²¹⁴ Bi(19.9 m)	609.312(44.8), 1764.494(15.36), 1120.287(14.80)
1066.93 ₃₀	0.30	¹³⁷ I(24.5 s)	1218.00(12.8), 601.05(4.80), 1302.64(4.42)
1066.96 ₈	0.383 ₂₁	⁸¹ Sr(22.3 m)	153.54(33.8), 147.76(30.1), 443.34(17.5)
1067.0 ₂	0.042 ₅	¹⁰⁷ Ru(3.75 m)	194.05(9.9), 847.93(5.3), 462.61(3.66)
1067.0 ₃	5.1 ₇	¹²⁷ Cd(0.43 s)	1235.07(8.3), 376.28(7.5), 523.60(5.15)
1067.0 ₈	†10.4 ₁₉	¹⁹⁵ Pb(15 m)	883.1(†100), 393.7(†42), 871.0(†36)
1067.06 ₁₉	0.027 ₅	¹³⁹ Cs(9.27 m)	1283.23(8.3), 627.24(1.78), 1420.66(0.91)
1067.1 ₆	0.039 ₁₀	⁸⁵ Y(4.86 h)	231.67(22.8), 2123.8(5.0), 767.40(3.6)
1067.1 ₅	0.013 ₄	¹¹¹ Pd(23.4 m)	580.00(0.8), 70.44(0.78), 1459.0(0.56)
1067.1 ₃		¹¹⁸ Ag(3.76 s)	487.77(60), 677.13(11.9), 2788.7(11.8)
• 1067.10 ₅	10	¹²⁵ Sn(9.64 d)	1089.15(4.59), 822.48(4.28), 915.55(4.13)
1067.1 ₃	0.058 ₁₇	¹⁵³ Dy(6.4 h)	80.723(11.10), 213.754(10.90), 99.659(10.51)
1067.16 ₁₀	0.40 ₄	¹⁹⁵ Tl(1.16 h)	563.52(10.5), 884.47(10.0), 1363.88(8.4)
• 1067.19 ₆	2.812 ₂₅	¹⁵⁶ Tb(5.35 d)	534.318(66.6), 199.2132(40.9), 1222.36(31.00)
1067.3 ₄	1.0 ₆	¹⁰² Ag(12.9 m)	556.52(91), 719.40(58), 1744.99(17.3)
1067.32 ₂₀	5.6 ₉	¹⁶⁶ Lu(2.12 m)	1427.18(23.0), 2098.6(16.1), 1256.64(15.2)
1067.34 ₂₀	2.5 ₃	¹⁶⁶ Lu(2.65 m)	228.12(77.3), 337.50(41), 367.95(31.4)
1067.36 ₅	0.705 ₈	¹⁴³ Ba(14.33 s)	211.475(25), 798.79(15.6), 980.45(11.55)
1067.4 ₂	0.049 ₉	¹³⁷ Xe(3.818 m)	455.490(31), 848.95(0.62), 1783.43(0.415)
1067.5 ₁₀	<0.00003	¹⁶ N(7.13 s)	6128.63(67.0), 7115.15(4.9), 2741.5(0.82)
1067.5 ₆	0.47 ₉	¹⁰⁷ In(32.4 m)	204.97(47), 505.51(11.9), 320.92(10.2)
1067.5 ₄		¹⁵⁷ Pm(10.56 s)	160.61(35), 188.052(13.5), 571.27(5.39)
1067.5 ₂	0.11 ₃	¹⁷³ Ta(3.14 h)	172.2(18), 69.70(5.9), 90.3(5.0)
1067.5 ₃	0.034	¹⁸⁰ Ir(1.5 m)	276.4(56), 132.2(38.1), 699.0(13.4)
1067.55 ₁₀	0.556 ₁₇	¹⁶² Tb(7.60 m)	260.070(37.2), 807.53(42.8), 888.20(38.7)
1067.56 ₂₄	0.017 ₆	¹³⁹ Xe(39.68 s)	218.59(56), 296.53(21.7), 174.97(11.3)
1067.6	0.14	¹¹¹ Sb(75 s)	154.48(71), 489.1(42), 1032.6(10.0)
1067.7 ₄	0.068 ₁₆	⁸⁹ Kr(3.15 m)	220.948(20.1), 586.03(16.6), 904.27(7.2)
1067.7 ₁₆	0.52 ₂₄	¹⁷⁵ Ta(10.5 h)	207.4(14.0), 348.5(12.0), 266.9(10.8)
1067.79 ₁₀	0.66 ₃	⁷⁷ Rb(3.75 m)	66.52(57), 178.99(22.2), 393.37(9.7)
1067.79 ₁₉	0.112 ₁₄	¹⁸⁷ Au(8.4 m)	1331.81(7.0), 1408.23(3.06), 914.73(3.02)
1067.8 ₇	0.0006 ₃	⁶² Cu(9.74 m)	1172.9(0.34), 875.68(0.150), 2301.8(0.0414)
1067.87 ₁	0.04 ₄	¹⁷⁵ Tm(15.2 m)	514.868(65), 941.23(15), 363.942(12.7)
1067.88 ₁₇	6.3 ₄	¹⁹⁵ Pb(15.0 m)	383.64(106.9), 394.21(44), 878.40(24.2)
1068.0 ₅	0.09 ₄	¹⁰⁹ Ru(34.5 s)	206.29(22.0), 225.98(19.6), 1929.05(13.7)
1068.0 ₁	0.247 ₂₅	¹²⁹ La(11.6 m)	278.6(25), 110.5(16.9), 457.0(8.0)
1068.0 ₁₀	0.10 ₄	¹⁴⁰ Cs(63.7 s)	602.345(71.1), 908.25(11.6), 1200.25(6.39)
1068.0 ₁	3.2 ₃	¹⁴⁰ Eu(1.51 s)	530.7(29), 459.9(3.19), 2064.9(0.93)
1068.0 ₁	0.80 ₃	¹⁴⁶ Ba(2.22 s)	140.7(20.2), 251.2(19.6), 121.2(14.2)
1068 ₂	†0.077 ₁₉	¹⁹⁶ Ir(1.40 h)	393.346(†105.2), 521.175(†104), 447.1(†102.1)
1068.1 ₃	4.7 ₃	⁹⁴ Rh(70.6 s)	1430.50(100), 756.23(51), 1072.50(30.7)
1068.10 ₁₀	0.44 ₄	¹²⁶ In(1.60 s)	1141.11(55.9), 3344.61(21.6), 969.61(14.9)
1068.1 ₁₂	0.162 ₁₈	¹⁶⁷ Lu(51.5 m)	29.66(14.4), 239.22(8.6), 213.19(3.6)
1068.1 ₆	0.6	²⁰³ Bi(11.76 h)	820.3(30), 825.2(14.6), 896.9(13)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
1068.1 3	0.066 25	²³⁰ Ac(122 s)	454.95(8), 508.20(5.15), 1243.9(3.50)
1068.12 15	0.00142 8	¹²³ I(13.27 h)	158.97(83), 528.96(1.39), 440.02(0.428)
1068.18 3	0.575 21	¹⁵⁵ Dy(9.9 h)	226.918(68.4), 184.564(3.37), 1089.8(>2.8)
1068.19 12	0.42 3	¹⁴¹ Cs(24.94 s)	48.53(7.90), 561.63(4.7), 1194.02(3.95)
1068.20 30	0.43 8	¹⁰⁵ In(5.07 m)	131.37(41), 260.21(15.7), 604.11(9.2)
1068.2 4	0.007 3	¹⁶⁷ Yb(17.5 m)	113.34(55.3), 106.18(22.5), 176.25(21)
1068.2 5	0.00059 9	²⁵⁰ Bk(3.217 h)	989.12(45), 1031.85(35.6), 1028.65(4.91)
1068.2 5	>0.10	²⁵⁰ Es(2.22 h)	989.12(13.3), 1031.85(10.6), 828.82(5.5)
• 1068.25 10	0.093 8	¹⁴⁸ Eu(54.5 d)	550.284(98.5), 629.987(71.9), 611.293(20.5)
1068.3 3	†2.7 5	¹⁴² Xe(1.22 s)	571.83(†100), 657.05(†79), 538.24(†77)
1068.3 5	0.16 5	¹⁸¹ Re(19.9 h)	365.57(56), 360.70(20), 639.30(6.4)
1068.3 5	†0.20 3	¹⁸⁸ Au(8.84 m)	265.63(†100), 340.04(†23.9), 605.5(†16.3)
• 1068.32 7	0.0337 17	¹⁴⁶ Eu(4.59 d)	747.2(98), 633.03(43), 634.07(37)
1068.4 11	0.21 11	¹⁰³ Cd(7.3 m)	1461.81(12), 1448.70(5.55), 1079.90(5.44)
1068.4 6	0.048 14	¹⁷⁹ Re(19.5 m)	430.221(28), 289.968(26.9), 1680.244(13.0)
1068.47 10	0.40 4	¹⁹⁴ Pb(12.0 m)	581.82(18.8), 1519.45(16.4), 203.82(16.2)
1068.51 11	0.61 5	⁹³ Rb(5.84 s)	432.61(17.4), 986.05(6.8), 213.429(6.7)
• 1068.54 8	0.318 19	¹⁶⁹ Lu(34.06 h)	960.622(23.4), 191.2137(20.6), 1449.74(9.92)
1068.7 9		¹⁴⁴ Cs(1.01 s)	199.326(†100.0), 639.00(†21.2), 758.96(†20.6)
• 1068.7 3	0.037 12	¹⁵³ Tb(2.34 d)	212.038(31.0), 170.504(6.8), 109.758(6.4)
1068.73 22	†0.71 24	¹⁸⁹ Hg(7.6 m)	320.99(†100), 78.21(†63), 565.42(†48)
1068.8 3	0.52 7	⁹⁹ Ag(124 s)	264.41(65), 832.29(13.5), 805.07(12.5)
1068.8 2	†4.0 15	¹²⁹ Sb(17.7 m)	759.8(†100.0), 657.78(†92), 433.76(†73)
1068.8 5		¹³⁰ Pr(40.0 s)	951.9, 499.0, 1405
1068.8 3	†3.2 7	¹⁵⁹ Yb(1.58 m)	166.16(†500), 177.12(†159), 390.20(†113)
• 1068.8 4	0.0054 5	¹⁷⁰ Lu(2.00 d)	84.2551(4.256), 1280.25(3.450), 2041.88(1.434)
1068.9	0.17 3	¹⁴⁶ Ba(2.22 s)	140.7(20.2), 251.2(19.6), 121.2(14.2)
1068.9	0.08	¹⁴⁸ Dy(3.1 m)	620.24(96), 1247.2(1.4), 178.3(0.5)
1069.0 3	0.087 22	⁹¹ Kr(8.57 s)	108.788(43.5), 506.592(19.1), 612.87(7.7)
1069.00 20	0.18 3	¹⁵³ Dy(6.4 h)	80.723(11.10), 213.754(10.90), 99.659(10.51)
1069.01 5	1.10 6	¹⁶² Tm(21.70 m)	102.00(17.5), 798.68(8.4), 227.52(7)
• 1069.09 5	0.1008 12	¹⁶⁰ Tb(72.3 d)	879.383(30.01), 298.580(25.51), 966.171(25.21)
1069.09 5	†8.6 7	¹⁶⁰ Ho(5.02 h)	728.18(†100), 879.383(†65.9), 962.317(†59.1)
1069.09 5	4.0 3	¹⁶⁰ Ho(25.6 m)	728.18(46.9), 879.383(26.6), 962.317(25.6)
1069.1 4	1.08 13	⁶³ Co(27.4 s)	87.13(48.7), 981.7(2.11), 155.6(1.60)
1069.1 6	0.11 3	¹¹⁷ Cs(8.4 s)	204.8(15.0), 29.7(9.9), 205.6(6.8)
1069.1 2	†2.4 3	¹³⁶ Pm(107 s)	373.8(†100), 602.7(†38.4), 857.2(†23.4)
1069.1 2	2.6 4	¹³⁶ Pm(107 s)	373.8(15.0), 602.7(12.3), 857.2(12.72)
1069.1 7	0.42 4	¹⁹⁹ Bi(27 m)	560.1(22.0), 424.85(22), 841.7(11)
1069.24 7	0.216 12	⁸⁹ Br(4.40 s)	1097.82(6.00), 997.93(4.26), 953.53(4.26)
1069.24 6	0.65 5	¹⁰⁰ Sr(202 ms)	963.85(22.0), 898.50(18.9), 65.46(15.2)
1069.25 6	0.031 5	¹⁸⁰ Re(2.44 m)	902.795(90), 103.557(22.2), 825.357(9.9)
1069.30	2.3 4	²⁵ Ne(602 ms)	89.53(95.5), 979.77(18.1), 2202(1.1)
1069.3 3	34 5	¹⁷⁶ Tm(1.9 m)	189.57(44.5), 381.8(21.8), 82.13(11.6)
• 1069.35 10	7.2 5	¹⁴⁷ Gd(38.06 h)	229.32(63), 396.00(34.3), 929.01(20.2)
1069.4 5	0.09 5	¹⁴² La(91.1 m)	641.285(47), 2397.8(13.3), 2542.7(10.00)
1069.42 10	0.0603 23	⁸¹ Rb(4.576 h)	190.38(64.0), 446.15(23.2), 510.31(5.3)
1069.49 10	1.99 10	¹²¹ Cd(8.3 s)	2059.41(21.0), 1020.89(18.9), 987.81(13.6)
1069.5 3	0.41 3	⁹⁹ Nb(2.6 m)	97.785(7), 253.50(3.64), 2641.3(3.64)
1069.6	0.026 9	¹⁴⁹ Tb(4.118 h)	352.24(29.43), 164.98(26.4), 388.57(18.37)
1069.7 5	0.65 26	⁸⁸ Nb(7.8 m)	1057.01(89.3), 1082.53(53.9), 399.41(45.7)
1069.8 3	2.9 7	¹⁷⁶ Re(5.3 m)	240.17(48), 109.08(25.0), 848.7(4.0)
1069.8 6	0.7	²⁰³ Bi(11.76 h)	820.3(30), 825.2(14.6), 896.9(13)
• 1069.82 4	0.219 7	¹⁴⁸ Eu(54.5 d)	550.284(98.5), 629.987(71.9), 611.293(20.5)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
1069.9 3	0.43 6	⁹⁵ Rb(377.5 ms)	352.02(49), 204.02(15.1), 680.7(14.8)
1069.9 6	0.047 11	¹¹⁵ Ag(20.0 m)	229.08(18), 212.80(4.4), 472.70(4.0)
1069.95 8	1.14 11	²⁰¹ Pb(9.33 h)	331.19(79), 361.27(9.9), 945.96(7.4)
1069.96 8	0.28 4	²¹⁴ Bi(19.9 m)	609.312(44.8), 1764.494(15.36), 1120.287(14.80)
1070.0 1	0.0019 6	¹²⁷ Cs(6.25 h)	411.95(62.8), 124.70(11.37), 462.31(5.07)
1070	0.64 6	¹⁵⁰ Pr(6.19 s)	130.2(32), 722.5(7.0), 852.7(6.1)
1070 10	12 5	²¹⁰ Tl(1.30 m)	799.7(99), 298(79), 1316(21)
1070.03 13	0.071 9	¹⁵¹ Nd(12.44 m)	116.80(43.4), 255.68(16.4), 1180.89(14.8)
1070.1 5	1.1 5	¹²⁵ Cd(0.65 s)	436.29(37), 1099.48(22.3), 2147.19(19.1)
1070.1 3	0.158 23	¹⁸¹ Au(11.4 s)	198.60(4.4), 2022.4(4.2), 79.40(4.2)
1070.1	0.070 23	¹⁹² Au(4.94 h)	316.50791(58.0), 295.95827(22.3), 2236.89(5.6)
1070.2 3	0.92 10	⁶⁵ Ge(30.9 s)	649.7(33), 62.0(27), 809.1(21.5)
1070.2 5	0.99 10	¹⁴⁴ La(40.8 s)	397.440(94.3), 541.20(39.2), 844.8(22.3)
1070.2 7	0.194 25	¹⁶⁷ Lu(51.5 m)	29.66(14.4), 239.22(8.6), 213.19(3.6)
1070.2 5	0.119 25	²²⁸ Pa(22 h)	911.205(4.19), 463.005(1.250), 964.770(4.25)
1070.3 5	0.3 1	⁷⁶ Kr(14.8 h)	315.7(39), 270.2(21.1), 45.48(19.5)
1070.3 6	†1.2 5	¹⁵² Tb(17.5 h)	344.281(†1500), 586.294(†223), 271.135(†203)
1070.3 6	0.0035 21	¹⁶⁷ Yb(17.5 m)	113.34(55.3), 106.18(22.5), 176.25(21)
1070.3 2	0.11 3	¹⁷³ Ta(3.14 h)	172.2(18), 69.70(5.9), 90.3(5.0)
1070.36 8	1.83 5	⁹⁶ Rh(9.90 m)	832.57(100), 685.49(95.7), 631.71(74.5)
1070.4 2	4.5 3	¹²⁸ La(5.0 m)	284.00(87), 479.24(54), 643.65(14.7)
• 1070.40 3	0.027 6	¹⁷² Lu(6.70 d)	1093.657(62.5), 900.724(29.8), 181.528(20.6)
1070.4 4	0.13 7	¹⁸⁵ Au(4.25 m)	310.6(13), 243.1(6.6), 77.7(6)
1070.47 9	0.037 19	¹⁸⁹ Pt(10.87 h)	721.41(9.3), 94.33(7.6), 568.84(7.1)
• 1070.5 4	0.025 12	¹⁵³ Tb(2.34 d)	212.038(31.0), 170.504(6.8), 109.758(6.4)
1070.57 5	0.037 19	¹⁸⁹ Pt(10.87 h)	721.41(9.3), 94.33(7.6), 568.84(7.1)
1070.6 3	1.23 11	¹⁵¹ Dy(17.9 m)	386.10(19.4), 49.46(18.0), 546.31(14.3)
1070.7 3	0.69 10	¹²⁷ In(1.09 s)	1597.7(49), 646.1(6.2), 805.1(5.6)
1070.737 130.079 3	130.079 3	¹⁷³ Hf(23.6 h)	123.672(83), 296.974(33.9), 139.634(12.7)
1070.8 1	1.21 6	¹⁴⁶ Ba(2.22 s)	140.7(20.2), 251.2(19.6), 121.2(14.2)
• 1070.80 12	0.0117 18	¹⁶⁵ Tm(30.06 h)	242.917(35.5), 47.155(16.9), 297.369(12.71)
• 1070.81 7	0.400 19	¹⁶⁹ Lu(34.06 h)	960.622(23.4), 191.2137(20.6), 1449.74(9.92)
1070.85 10	0.0178 11	¹²⁵ Xe(16.9 h)	188.418(54), 243.378(30.1), 54.968(6.81)
1070.9 1		¹⁰⁷ Tc(21.2 s)	102.70(21.0), 177.00(9.2), 106.31(7.6)
1070.9 4	†3	¹³¹ Ce(10.3 m)	169.42(†100), 414.25(†68), 119.18(†44)
• 1070.90 30	0.0524 18	¹⁷⁰ Lu(2.00 d)	84.2551(4.256), 1280.25(3.450), 2041.88(1.434)
1070.9	†1.7 3	¹⁷⁸ Ir(12 s)	266.1(†100.0), 131.6(†79), 363.1(†39.9)
• 1070.97 15	0.061 10	⁷⁹ Kr(35.04 h)	261.29(13), 397.54(9.3), 606.09(8.12)
1071 2	†3.2	¹⁰⁷ Sn(2.90 m)	1129.2(†100), 678.5(†100), 1540.6(†30)
1071		¹³² Pr(1.6 m)	325.5(†100), 496.9(†25), 822.4(†17.3)
1071		²³⁸ Pa(2.3 m)	1015.3(†<100), 1014.6(†<100), 635.18(†88)
• 1071.002 250.144 10	250.144 10	¹⁵⁰ Eu(35.8 y)	333.971(96), 439.401(80.4), 584.274(52.6)
1071.1 7	0.17 8	¹⁷⁵ Ta(10.5 h)	207.4(14.0), 348.5(12.0), 266.9(10.8)
1071.18 12	0.20 6	¹⁸⁶ Ir(16.64 h)	296.911(64.0), 137.155(42), 434.849(34.4)
1071.2 2	>0.07	¹²⁹ La(11.6 m)	278.6(25), 110.5(16.9), 457.0(8.0)
1071.2 3	0.00063 11	¹⁸⁸ Re(16.98 h)	155.032(14.9), 632.99(1.25), 477.99(1.0)
1071.4	0.13	⁹² Rb(4.492 s)	814.98(33), 2820.6(6.2), 569.8(5.6)
1071.4 3	0.27 8	¹²² In(10.3 s)	1140.55(98), 1001.58(50.7), 1190.58(20.5)
1071.4 4	0.26 9	¹⁸⁸ Tl(71 s)	412.7(88), 592.0(61), 504.2(23.3)
1071.47 14	0.89 8	¹⁸⁶ Ir(2.0 h)	137.155(27), 767.508(21.2), 630.354(18.0)
1071.5 4	0.00035 6	¹⁶¹ Gd(3.66 m)	360.94(0.59), 314.92(22.7), 102.315(13.9)
1071.6 10	†26	⁹⁹ Rb(59 ms)	90.8(†100), 125.2(†40), 981.4(†21)
1071.65 5	1.280 19	¹⁰⁵ Cd(55.5 m)	961.84(4.69), 346.870(4.20), 1302.459(3.98)
1071.7 3	0.89 7	⁹⁹ Pd(21.4 m)	136.00(73), 263.60(15.2), 673.38(6.9)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
1071.7 4	1.5 4	$^{113}\text{Te}(1.7 \text{ m})$	814.4(22), 1018.1(13.0), 1181.0(12.3)
1071.70 21	12.9 9	$^{115}\text{Te}(6.7 \text{ m})$	770.40(34.2), 723.569(18), 1504.10(10.2)
1071.70 21	0.24	$^{115}\text{Te}(5.8 \text{ m})$	723.569(30), 1380.58(23.0), 1326.83(22.7)
1071.7 4	2.2 2	$^{130}\text{Sb}(6.3 \text{ m})$	839.49(100), 793.53(86), 182.36(41)
1071.73 21	>3.7	$^{168}\text{Lu}(6.7 \text{ m})$	198.82(28), 979.22(20), 896.12(15)
1071.76 18	0.515 23	$^{103}\text{Cd}(7.3 \text{ m})$	1461.81(12), 1448.70(5.55), 1079.90(5.44)
1071.77 3	0.49 8	$^{100}\text{Nb}(1.5 \text{ s})$	535.60(45.7), 528.24(9.1), 159.547(8.8)
1071.77 3	5.7 13	$^{100}\text{Nb}(2.99 \text{ s})$	535.60(97.0), 600.5(65.0), 1280.6(23.8)
1071.8 1	$\dagger 46 5$	$^{171}\text{Hf}(12.1 \text{ h})$	122.0($\dagger 100$), 662.2($\dagger 83$), 347.18($\dagger 47$)
1071.8 3	0.159 15	$^{205}\text{At}(26.2 \text{ m})$	719.30(31), 669.41(8.6), 628.88(5.6)
1071.8 5	0.29 4	$^{208}\text{At}(1.63 \text{ h})$	686.527(98), 660.040(89), 177.595(48.6)
1071.85 15	2.3 3	$^{184}\text{Au}(53.0 \text{ s})$	162.97(50), 272.98(40), 362.47(17.5)
• 1071.88 16		$^{206}\text{Bi}(6.243 \text{ d})$	803.10(99), 881.01(66.2), 516.18(40.7)
• 1071.9 10	0.0012 5	$^{99}\text{Mo}(65.94 \text{ h})$	739.50(12.1), 181.063(6.08), 140.511(4.52)
1071.94 13	0.293 18	$^{141}\text{Cs}(24.94 \text{ s})$	48.53(7.90), 561.63(4.7), 1194.02(3.95)
1072.0 8	0.28	$^{101}\text{Cd}(1.2 \text{ m})$	98.0(47), 1722.5(11), 1259.3(8)
1072 1	0.05 3	$^{109}\text{Rh}(80 \text{ s})$	326.868(54), 426.135(7.7), 178.034(7.6)
1072.0 1	0.025 6	$^{127}\text{Cs}(6.25 \text{ h})$	411.95(62.8), 124.70(11.37), 462.31(5.07)
1072.2		$^{70}\text{Cu}(4.5 \text{ s})$	884.9(54), 1876(2.2), 1654.1
1072.2		$^{70}\text{Cu}(47 \text{ s})$	884.9(100), 901.7(87), 1251.7(57)
1072.20 16	0.030 3	$^{85}\text{Br}(2.90 \text{ m})$	802.41(2.56), 924.63(1.63), 919.06(0.65)
1072.2 5	$\dagger 294 88$	$^{105}\text{Ag}(7.23 \text{ m})$	319.14($\dagger 63000$), 306.25($\dagger 12800$), 442.37($\dagger 5900$)
1072.2 8	0.09 5	$^{142}\text{La}(91.1 \text{ m})$	641.285(47), 2397.8(13.3), 2542.7(10.00)
• 1072.2	0.0035 14	$^{154}\text{Eu}(8.593 \text{ y})$	123.071(40.79), 1274.436(35.19), 723.304(20.22)
1072.2 3	0.28 9	$^{154}\text{Ho}(3.10 \text{ m})$	334.6(94), 412.4(79), 477.1(55)
1072.2 3	1.00 13	$^{154}\text{Ho}(11.76 \text{ m})$	334.6(84), 412.4(15.0), 873.4(12.5)
1072.2 1	0.017 3	$^{240}\text{Np}(7.22 \text{ m})$	554.60(20.9), 597.40(11.7), 1496.9(1.33)
1072.3 3	0.030 7	$^{79}\text{Rb}(22.9 \text{ m})$	688.1(23), 182.77(19.2), 143.41(13.9)
• 1072.3 2	0.030 5	$^{131}\text{Te}(30 \text{ h})$	773.67(49.9), 852.21(27.0), 793.75(18.10)
1072.3 1	2.8 2	$^{145}\text{Gd}(23.0 \text{ m})$	1757.9(34.2), 1880.6(32.6), 1041.8(9.9)
1072.30 6	0.062 14	$^{179}\text{Re}(19.5 \text{ m})$	430.221(28), 289.968(26.9), 1680.244(13.0)
• 1072.35 4	0.302 6	$^{205}\text{Bi}(15.31 \text{ d})$	1764.36(1.368), 703.44(31), 987.62(0.585)
1072.36 4	0.020 15	$^{116}\text{In}(54.41 \text{ m})$	1293.54(84.4), 1097.3(56.2), 416.86(28.9)
1072.36 4	28 2	$^{116}\text{Sb}(60.3 \text{ m})$	1293.54(100), 972.550(72), 542.872(52)
1072.37 13	0.35 4	$^{154}\text{Tb}(9.4 \text{ h})$	123.071(30), 247.925(22.1), 540.18(20)
1072.4 5	0.3 1	$^{97}\text{Sr}(426 \text{ ms})$	1905.0(25), 953.8(21.4), 652.2(11.4)
1072.4 2	4.3 6	$^{232}\text{Ac}(119 \text{ s})$	665.0(15.3), 1899(8.9), 1959(5.4)
1072.41 15	$\dagger 27 5$	$^{189}\text{Au}(28.7 \text{ m})$	713.17($\dagger 100$), 812.68($\dagger 63$), 447.65($\dagger 55$)
1072.50 20	30.7 10	$^{94}\text{Rh}(70.6 \text{ s})$	1430.50(100), 756.23(51), 311.70(12)
1072.5 10	0.55 3	$^{114}\text{Sb}(3.49 \text{ m})$	1299.90(99), 887.60(17.4), 327.18(7.0)
1072.547 30	15.0 8	$^{134}\text{I}(52.6 \text{ m})$	847.025(95.4), 884.090(64.9), 595.362(11.2)
1072.6	$\dagger 100$	$^{130}\text{Ce}(25 \text{ m})$	997.7($\dagger 100$), 920.5($\dagger 100$), 851.5($\dagger 80$)
1072.6 2	1.8 9	$^{141}\text{Gd}(24.5 \text{ s})$	351.1(89), 223.9(64), 574.9(51)
1072.6 2	1.0 5	$^{141}\text{Gd}(14 \text{ s})$	215.8(54), 525.9(17), 336.2(17.1)
1072.6 4	$\dagger 124 52$	$^{157}\text{Ho}(12.6 \text{ m})$	279.97($\dagger 47600$), 341.16($\dagger 37000$), 193.41($\dagger 15200$)
1072.6 3	$\dagger 0.30 3$	$^{184}\text{Ir}(3.09 \text{ h})$	263.97($\dagger 100$), 119.80($\dagger 45$), 390.38($\dagger 38$)
1072.63 8	0.83 13	$^{202}\text{Bi}(1.72 \text{ h})$	960.67(99), 422.18(83.7), 657.49(60.6)
1072.641 8	0.022 3	$^{199}\text{Pt}(30.80 \text{ m})$	542.993(15), 493.772(5.59), 317.056(4.95)
1072.67 25	0.017 4	$^{183}\text{Os}(13.0 \text{ h})$	381.768(89.6), 114.463(20.63), 167.844(8.81)
1072.7 3	0.204 17	$^{103}\text{Ag}(65.7 \text{ m})$	118.72(31.2), 148.193(28.3), 266.86(13.3)
1072.7 5	0.24 6	$^{109}\text{Sn}(18.0 \text{ m})$	1099.4(30), 649.90(28.0), 1321.3(11.9)
1072.7 6	1.7 4	$^{116}\text{Cs}(3.84 \text{ s})$	393.5(<0.09), 524.3(76), 615.1(30.4)
1072.7 3	$\dagger 0.75 10$	$^{129}\text{Ba}(2.17 \text{ h})$	182.30($\dagger 100$), 1459.1($\dagger 50.0$), 202.38($\dagger 33.7$)
1072.8 2	$\dagger 2.2 2$	$^{104}\text{Nb}(0.92 \text{ s})$	192.2($\dagger 100$), 368.4($\dagger 20$), 620.2($\dagger 19.2$)

• $t_{1/2} > 1 \text{ d}$

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
1072.85 7	47 4	^{124}In (2.4 s)	1131.64(100), 969.94(52), 102.91(45)
1072.9 2	0.029 8	^{101}Pd (8.47 h)	296.29(19), 590.44(12.06), 269.67(6.43)
• 1072.96 5	0.079 13	^{82}Br (35.30 h)	776.517(83.5), 554.348(70.8), 619.106(43.4)
1072.96 5	0.00205 10	^{82}Br (6.13 m)	776.517(0.26), 698.374(0.0340), 1474.88(0.0198)
1072.96 5	0.73 5	^{82}Rb (6.472 h)	776.517(84), 554.348(62.4), 619.106(37.976)
1073.0 1	0.016 6	^{127}Cs (6.25 h)	411.95(62.8), 124.70(11.37), 462.31(5.07)
1073.0 2	3.6	^{151}Er (23.5 s)	638.3(36), 667.2(17), 256.4(15.9)
1073.1 1	0.120 10	^{151}Nd (12.44 m)	116.80(43.4), 255.68(16.4), 1180.89(14.8)
1073.11 4	0.328 11	^{69}As (15.2 m)	232.69(11), 145.95(4.96), 86.78(3.44)
1073.2 1	0.84 6	^{109}Ru (34.5 s)	206.29(22.0), 225.98(19.6), 1929.05(13.7)
1073.2 1	6.37	^{149}Ho (21.1 s)	1090.7(74.8), 1583.6(4.48), 1736.8(3.80)
1073.20 17	†7.7 8	^{159}Yb (1.58 m)	166.16(†500), 177.12(†159), 390.20(†113)
1073.24 10	2.17 14	^{157}Pm (10.56 s)	160.61(35), 188.052(13.5), 571.27(5.39)
1073.3 12	0.29 3	^{133}Ce (4.9 h)	477.22(39), 510.36(20.7), 58.39(19.2)
1073.3 5	†4.4 17	^{194}Tl (33.0 m)	428.0(†100), 636.5(†23), 645.20(†13)
1073.31 8	0.45 3	^{100}Sr (202 ms)	963.85(22.0), 898.50(18.9), 65.46(15.2)
1073.36 12	†8.6 14	^{131}Sn (56.0 s)	1226.03(†100), 450.03(†90), 798.50(†86)
• 1073.4 2	0.0019 4	^{71}As (65.28 h)	174.954(82.00), 1095.490(4.08), 499.876(3.624)
1073.4 3		^{146}Dy (29 s)	2156.8, 1915.7, 1876.7
1073.465 250.033 3		^{61}Cu (3.333 h)	282.956(12.2), 656.008(10.77), 67.412(4.23)
1073.48 16	0.13 1	^{141}Cs (24.94 s)	48.53(7.90), 561.63(4.7), 1194.02(3.95)
1073.5	>0.00027	^{179}Lu (4.59 h)	214.335(11.3), 214.930(0.46), 123.3790(0.45)
1073.54 10	0.31	^{165}Yb (9.9 m)	80.11(49), 68.86(9.1), 1090.28(4.4)
1073.56 5	3.5 3	^{164}Lu (3.14 m)	123.3(34.0), 740.52(12.2), 262.22(10.8)
1073.56 13	0.6	^{165}Yb (9.9 m)	80.11(49), 68.86(9.1), 1090.28(4.4)
1073.6 9	0.028 8	^{124}Cs (30.8 s)	353.9(40), 914.8(4.0), 492.6(3.6)
1073.6 2	0.0160 19	^{212}Bi (60.55 m)	727.330(6.58), 1620.50(1.49), 785.37(1.102)
1073.6 2	0.103 10	^{234}Pa (6.70 h)	131.30(18), 946.00(13.4), 883.24(9.6)
1073.70 21	0.0009 5	^{110}Ag (24.6 s)	657.7622(4.5), 815.35(0.0382), 1125.700(0.0153)
1073.70 21	0.098 9	^{110}In (69.1 m)	657.7622(98), 2129.53(2.13), 2211.49(1.76)
1073.71 2	3.74 4	^{95}Tc (20.0 h)	765.794(93.82), 947.67(1.951), 869.60(0.317)
1073.74 6	0.951 25	^{88}Br (16.5 s)	775.28(63), 802.14(13.13), 1440.69(4.72)
• 1073.79 3	1.12 7	^{169}Lu (34.06 h)	960.622(23.4), 191.2137(20.6), 1449.74(9.92)
1073.87 4	0.106 18	^{75}Br (96.7 m)	286.572(88), 141.3147(6.6), 427.883(4.4)
1073.9 10	0.26 3	^{140}Cs (63.7 s)	602.345(71.1), 908.25(11.6), 1200.25(6.39)
1074.0	0.09 5	^{44}K (22.13 m)	1157.031(58), 2150.76(22.7), 2518.95(9.69)
1074.0 5	0.044 22	^{151}Nd (12.44 m)	116.80(43.4), 255.68(16.4), 1180.89(14.8)
1074.0 3	0.037 9	^{153}Dy (6.4 h)	80.723(11.10), 213.754(10.90), 99.659(10.51)
1074.0 3	0.60 10	^{184}Au (53.0 s)	162.97(50), 272.98(40), 362.47(17.5)
1074.0 10	0.044 16	^{198}Tl (5.3 h)	411.8044(82), 675.8874(11), 636.4(10.1)
1074		^{238}Pa (2.3 m)	1015.3(†<100), 1014.6(†<100), 635.18(†88)
1074.03 3	0.170 17	^{191}Au (3.18 h)	586.45(17), 277.88(7.2), 674.19(6.8)
1074.10 10	1.77 27	^{88}Nb (14.5 m)	1082.53(103), 1057.01(100), 671.20(64)
1074.2 5	0.09 3	^{100}Cd (49.1 s)	936.55(66), 139.71(6.7), 582.5(6.3)
1074.2 4	2.5 3	^{139}Nd (29.7 m)	405.12(7), 669.0(1.52), 916.9(1.52)
1074.2	2.30 13	^{150}Pr (6.19 s)	130.2(32), 722.5(7.0), 852.7(6.1)
1074.25 21	0.53 8	^{183}Ir (58 m)	392.52(10.4), 228.70(6.9), 87.67(5.6)
1074.31 11	0.75 8	^{197}Pb (43 m)	385.85(74), 387.72(25.1), 222.45(24.6)
1074.4 2	0.014 3	^{119}I (19.1 m)	257.52(87), 635.86(2.69), 320.53(2.17)
1074.41 15	0.010 3	^{228}Ac (6.15 h)	911.205(26.6), 968.971(16.2), 338.322(11.3)
1074.5 3	2.36 22	^{129}In (0.61 s)	2118.0(45), 1865.0(32), 769.3(9.1)
1074.5 2	0.69 5	^{152}Tb (4.2 m)	344.281(20.8), 411.115(18.8), 471.9(12.2)
1074.6 2	†2.0 10	^{172}Ir (2.0 s)	227.8(†100.0), 378.4(†62.0), 448.4(†40.5)
1074.6 1	0.200 18	^{209}At (5.41 h)	545.0(91), 781.9(83.5), 790.2(63.5)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
• 1074.68 ¹⁰	0.75 ⁶	²³⁰ Pa(17.4 d)	951.95(1.65), 918.48(8.2), 454.95(6.27)
1074.7 ³	0.84 ¹³	¹⁸ N(624 ms)	1981.95(83.2), 821.76(49.0), 1651.61(48.9)
1074.7 ⁵	\dagger 1.7 ³	¹⁰² Tc(4.35 m)	475.070(\dagger 115), 628.05(\dagger 35.3), 631.28(\dagger 21.3)
1074.7 ³	1.9 ⁴	¹¹² Rh(6.8 s)	348.70(87), 560.5(49), 1098.6(39)
1074.9 ⁶	0.29	²⁰³ Bi(11.76 h)	820.3(30), 825.2(14.6), 896.9(13)
1074.93 ¹⁸	1.0 ³	¹⁸¹ Re(19.9 h)	365.57(56), 360.70(20), 639.30(6.4)
1075.0 ¹	0.071 ⁹	¹⁴⁹ Tb(4.118 h)	352.24(29.43), 164.98(26.4), 388.57(18.37)
1075.0 ⁴	\dagger 1.5 ⁴	¹⁸⁹ Hg(7.6 m)	320.99(\dagger 100), 78.21(\dagger 63), 565.42(\dagger 48)
1075.0 ⁴	1.1 ⁸	¹⁹⁶ Bi(308 s)	1049.21(87), 689.00(35.5), 776.6(9.1)
• 1075.0	5.0×10^{-6}	²⁵³ Es(20.47 d)	41.79(0.050), 389.11(0.0264), 387.1(0.00810)
• 1075.10 ¹⁰	0.011 ⁵	²⁰⁵ Bi(15.31 d)	1764.36(1.368), 703.44(31), 987.62(0.585)
1075.13 ³	0.80 ⁴	¹⁶³ Tm(1.810 h)	104.320(18.6), 69.229(11.6), 241.305(10.9)
1075.18 ⁴⁶	0.074 ²²	¹⁴¹ Xe(1.73 s)	909.23(24.0), 118.705(16.1), 105.937(9.8)
1075.2 ³	\dagger 3	¹³¹ Ce(10.3 m)	169.42(\dagger 100), 414.25(\dagger 68), 119.18(\dagger 44)
1075.2 ³	3.49 ²⁵	¹³⁹ Nd(5.50 h)	113.94(40), 737.96(35), 982.2(26.4)
1075.2 ²	0.12 ⁶	¹⁸⁵ Au(4.25 m)	310.6(13), 243.1(6.6), 77.7(6)
1075.3 ³	2.1 ⁴	¹⁰⁴ Ag(69.2 m)	555.796(92.6), 767.72(65.7), 941.7(25.0)
1075.3 ¹	0.61 ⁴	¹⁵⁰ Tb(3.48 h)	638.05(72), 496.3(14.8), 792.5(4.39)
1075.30 ¹²	3.06 ⁷	¹⁷² Ta(36.8 m)	214.02(46), 95.23(17.5), 1109.27(12.4)
1075.31 ¹⁸	0.63 ⁶	¹⁴⁶ Cs(0.343 s)	181.02(57.0), 557.76(9.18), 332.38(6.44)
1075.44 ²⁵	0.88 ¹⁵	¹²⁵ Cd(0.57 s)	1027.53(25.8), 1173.16(25.1), 736.65(12.6)
1075.5 ⁵	0.4 ²	¹³⁰ Sb(39.5 m)	793.53(100), 839.49(100), 331.05(78)
1075.543 ²⁸⁰	0.0616 ¹⁶	¹²⁵ Xe(16.9 h)	188.418(54), 243.378(30.1), 54.968(6.81)
1075.8 ¹⁰	2.9 ⁴	⁶⁹ Se(27.4 s)	97.98(66), 66.4(24.8), 691.8(16.6)
1075.87 ³	0.126 ³	¹⁵⁹ Ho(33.05 m)	121.012(36.2), 131.973(23.6), 309.594(17.2)
1075.9 ³	0.83 ¹⁰	⁶⁵ Ge(30.9 s)	649.7(33), 62.0(27), 809.1(21.5)
1075.9 ³	0.226 ²³	⁹⁶ Rb(0.199 s)	815.0(78.00), 692.0(8.0), 813.2(7.0)
1075.90 ²⁵	0.28 ⁸	¹⁹³ Hg(11.8 h)	257.97(61), 407.63(25), 573.25(14.2)
1075.95 ⁴	0.021 ³	¹⁴⁹ Nd(1.728 h)	211.309(25.9), 114.314(19.2), 270.166(10.7)
1076.0 ²	0.051 ⁷	⁷⁹ Rb(22.9 m)	688.1(23), 182.77(19.2), 143.41(13.9)
1076.0 ¹	0.09 ²	¹⁰⁷ Tc(21.2 s)	102.70(21.0), 177.00(9.2), 106.31(7.6)
1076 ¹	0.040 ²⁰	¹¹¹ Pd(5.5 h)	70.44(8.3), 391.25(5.4), 632.80(3.6)
1076.0 ³	0.053 ¹³	¹⁵³ Dy(6.4 h)	80.723(11.10), 213.754(10.90), 99.659(10.51)
• 1076	0.338 ⁷	¹⁵⁶ Eu(15.19 d)	811.79(9.70), 88.9667(8.4), 1230.68(7.98)
• 1076.1 ⁴	0.0066 ²⁵	⁷⁹ Kr(35.04 h)	261.29(13), 397.54(9.3), 606.09(8.12)
1076.2 ⁴	\dagger 7.4 ²⁴	¹⁵² Pr(3.24 s)	164.2(\dagger 100), 284.9(\dagger 81.0), 72.40(\dagger 38.9)
1076.2	0.10	¹⁶⁷ Lu(51.5 m)	29.66(14.4), 239.22(8.6), 213.19(3.6)
1076.2	0.08	¹⁸⁵ Ir(14.4 h)	254.4(13.3), 1828.8(10), 60.0(5.7)
1076.2 ⁷	0.32 ³	¹⁹⁹ Bi(27 m)	560.1(22.0), 424.85(22), 841.7(11)
• 1076.240 ¹⁸⁰	0.79 ⁴	¹⁷² Tm(63.6 h)	78.7435(6.5), 1093.657(6.0), 1387.093(5.6)
1076.3 ³	8.8 ¹⁴	⁸² As(13.6 s)	654.6(72), 343.5(58), 1895.4(39)
1076.3 ³	1.19 ²⁰	⁸² As(19.1 s)	654.6(15), 1731.3(4.1), 755.2(1.81)
1076.30 ¹⁰	0.52 ⁷	⁹⁹ Ag(124 s)	264.41(65), 832.29(13.5), 805.07(12.5)
1076.3 ⁴	0.42 ¹⁴	¹⁵⁷ Tm(3.63 m)	455.00(9.3), 385.5(8.8), 348.40(8.4)
• 1076.30 ⁶	10.5 ³	¹⁸² Re(64.0 h)	229.3220(26), 67.75001(22.2), 1121.3007(22.0)
1076.35 ²⁴	0.378 ¹⁵	¹⁵⁶ Ho(56 m)	266.35(54.7), 137.83(51), 366.25(10.73)
1076.38 ²²	0.088 ¹⁶	¹³⁸ Xe(14.08 m)	258.411(31.5), 434.562(20.3), 1768.26(16.7)
1076.4 ¹	0.48 ³	¹⁴³ La(14.2 m)	620.3(2.34), 643.75(1.55), 621.4(1.52)
1076.48 ²⁰	0.24 ³	⁸⁹ Kr(3.15 m)	220.948(20.1), 586.03(16.6), 904.27(7.2)
1076.50 ²⁰	0.93 ⁶	⁹¹ Tc(3.14 m)	2450.90(13.5), 1639.90(9.2), 1605.20(7.77)
1076.5 ¹	0.45 ³	¹⁴⁶ Ba(2.22 s)	140.7(20.2), 251.2(19.6), 121.2(14.2)
1076.5 ⁵	0.07	¹⁵⁴ Pm(1.73 m)	2057.76(17.1), 1393.9(14.4), 81.99(12.6)
1076.5 ⁵	\dagger 3.0 ¹³	¹⁷¹ Hf(12.1 h)	122.0(\dagger 100), 662.2(\dagger 83), 347.18(\dagger 47)
1076.50 ¹⁷	\dagger <8.6	¹⁸¹ Pt(51 s)	289.29(\dagger 100), 111.97(\dagger 100), 230.15(\dagger 92)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
1076.6 2	0.15 3	¹³³ Ce(4.9 h)	477.22(39), 510.36(20.7), 58.39(19.2)
• 1076.6 4	0.016 6	¹⁵³ Tb(2.34 d)	212.038(31.0), 170.504(6.8), 109.758(6.4)
• 1076.64 4	9	⁸⁶ Rb(18.631 d)	
1076.64 4	83	⁸⁶ Y(14.74 h)	627.72(32.6), 1153.01(30.5), 777.35(22.4)
1076.64 4	0.69 7	⁸⁶ Y(48 m)	627.21(0.69), 1153.01(0.69), 98.68
1076.66 10	0.0310 24	¹⁶⁸ Ho(2.99 m)	741.356(36.6), 821.164(34.5), 815.990(18.6)
1076.7	1.0	⁴⁴ Ar(11.87 m)	182.6(66), 1703.4(57), 1886.0(31)
1076.7 4	0.27 10	¹²¹ Cs(155 s)	153.9(15.2), 239.6(7.7), 427.1(3.63)
1076.7 4	0.21 8	¹²¹ Cs(122 s)	179.4(30.2), 196.0(24.1), 459.7(12.0)
1076.88	14.8 3	²⁴ Al(2.053 s)	1368.633(96.0), 7069.50(43.0), 2754.028(41.2)
1076.9 2		¹⁰⁶ In(6.2 m)	632.66(100), 861.16(92), 997.87(48)
1076.9 2		¹⁰⁶ In(5.2 m)	632.66(92), 1714.90(17.1), 861.16(10.6)
1076.9 2	0.0081 16	¹⁷⁹ Lu(4.59 h)	214.335(11.3), 214.930(0.46), 123.3790(0.45)
1076.94 17	0.030 6	¹³⁹ Cs(9.27 m)	1283.23(8.3), 627.24(1.78), 1420.66(0.91)
1077.0 2	†10	¹³⁹ I(2.29 s)	527.7(†100), 571.2(†98), 536.6(†67)
1077.0 14	0.009 3	¹⁹⁹ Pt(30.80 m)	542.993(15), 493.772(5.59), 317.056(4.95)
• 1077.043 6	6.15 19	¹⁴⁷ Eu(24.1 d)	197.299(27), 121.220(22.9), 677.516(9.8)
1077.12 10	0.132 12	¹⁵¹ Nd(12.44 m)	116.80(43.4), 255.68(16.4), 1180.89(14.8)
• 1077.2 5	0.053 18	¹⁰⁶ Ag(8.28 d)	511.842(88), 1045.83(29.6), 717.24(28.9)
1077.3 1	†0.18 5	¹⁶⁰ Ho(5.02 h)	728.18(†100), 879.383(†65.9), 962.317(†59.1)
1077.35 4	12 5	⁶⁸ Cu(3.75 m)	1339.96(12.0), 1041.3(9.6), 152.0(5.5)
1077.35 4	64 4	⁶⁸ Cu(31.1 s)	1260.97(12.5), 1883.09(2.4), 1744.16(1.7)
1077.35 4	3.0	⁶⁸ Ga(67.629 m)	1883.09(0.130), 1260.97(0.0900), 805.75(0.089)
1077.5 2	2.1 5	²³² Ac(119 s)	665.0(15.3), 1899(8.9), 1959(5.4)
1077.60 17	0.045 5	⁹³ Rb(5.84 s)	432.61(17.4), 986.05(6.8), 213.429(6.7)
1077.6 8	0.042 17	¹⁰³ Ag(65.7 m)	118.72(31.2), 148.193(28.3), 266.86(13.3)
1077.6 1	0.99 10	¹⁰⁹ Ru(34.5 s)	206.29(22.0), 225.98(19.6), 1929.05(13.7)
1077.6 10	0.16 8	¹⁴⁰ Xe(13.60 s)	805.52(20), 1413.66(12.2), 1315.05(8.2)
1077.64 5	0.589 7	⁷³ Se(39.8 m)	67.03(2.59), 253.70(2.356), 84.0(2.03)
1077.64 25	0.4 3	¹⁸¹ Os(105 m)	238.75(44), 826.77(20), 118.03(12.9)
1077.68 3	1.96 13	²⁰⁷ At(1.80 h)	814.41(44.5), 588.33(19.2), 300.654(12.8)
1077.73 15	0.32 4	¹²⁶ In(1.60 s)	1141.11(55.9), 3344.61(21.6), 969.61(14.9)
1077.8 4	0.090 15	¹⁶¹ Er(3.21 h)	826.6(3.0), 211.15(12.2), 592.6(3.7)
1077.8 3	0.090 15	¹⁶¹ Er(3.21 h)	826.6(3.0), 211.15(12.2), 592.6(3.7)
1077.86 16	0.23 3	⁹³ Sr(7.423 m)	590.238(67), 875.73(24.1), 888.13(21.8)
1077.9 5	0.16 4	¹²¹ Xe(40.1 m)	252.7(13), 132.8(10.9), 445.2(7.7)
1078.0 3	1.24 6	¹⁰⁹ Sb(17.0 s)	925.4(32), 1062.8(23.9), 664.5(20.1)
• 1078.0 4	4.0×10^{-5} 4	¹¹⁵ Cd(44.6 d)	933.8(2.000), 1290.580(0.890), 484.470(0.290)
1078.0 2	†1.40 11	¹²⁹ Ba(2.17 h)	182.30(†100), 1459.1(†50.0), 202.38(†33.7)
1078.0 3	0.063 17	¹⁵³ Dy(6.4 h)	80.723(11.10), 213.754(10.90), 99.659(10.51)
1078.0 5	0.0072 14	¹⁵⁹ Ho(33.05 m)	121.012(36.2), 131.973(23.6), 309.594(17.2)
1078.12 5	0.78 5	¹⁰⁷ Ru(3.75 m)	194.05(9.9), 847.93(5.3), 462.61(3.66)
1078.13 15	0.17 11	¹³³ Te(55.4 m)	912.671(55.28), 647.51(19.4), 863.955(15.6)
1078.2 4	0.019 9	⁹⁸ Nb(51.3 m)	787.374(93), 722.645(73.8), 1168.830(17.8)
1078.2	†0.33 6	¹³⁵ Pm(49 s)	198.5(†100), 207.2(†70), 463.5(†62)
• 1078.23 10	0.061 9	¹⁵³ Tb(2.34 d)	212.038(31.0), 170.504(6.8), 109.758(6.4)
• 1078.28 4	1.07 4	¹⁶⁹ Lu(34.06 h)	960.622(23.4), 191.2137(20.6), 1449.74(9.92)
1078.3 1	2.51 15	¹³² Sn(39.7 s)	340.53(49), 85.58(48.2), 899.04(44.8)
• 1078.3 4	0.034 9	¹⁷⁰ Lu(2.00 d)	84.2551(4.256), 1280.25(3.450), 2041.88(1.434)
1078.3 5	†31 3	¹⁹⁵ Bi(183 s)	807.6(†100), 831.7(†100), 776.2(†95)
1078.4 4	0.26 3	¹⁵⁹ Eu(18.1 m)	67.8(19), 78.6(9.1), 95.7(7.0)
1078.5 3	†12.0 6	³² Ar(98 ms)	1168.4(†32.8), 707.4(†12.1), 461.09(†12.1)
1078.5 3	0.09 9	¹⁰⁹ Sn(18.0 m)	1099.4(30), 649.90(28.0), 1321.3(11.9)
1078.5 1	0.53 6	¹⁴⁶ Ba(2.22 s)	140.7(20.2), 251.2(19.6), 121.2(14.2)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
1078.59 ¹⁹	3.0 ⁷	⁹⁸ Ag(46.7 s)	863.1(100), 678.5(85), 570.93(53)
1078.6 ⁷	0.15 ⁴	¹⁰³ Cd(7.3 m)	1461.81(12), 1448.70(5.55), 1079.90(5.44)
1078.6 ⁴	2 ¹	¹²⁸ Sb(9.01 h)	753.82(100), 743.22(100), 314.12(61)
1078.6 ¹	51.6 ²⁶	¹⁴⁶ Tb(23 s)	1579.4(100), 1417.2(17.2), 440.9(13.1)
1078.62 ¹⁰	0.564 ¹⁹	²¹² Bi(60.55 m)	727.330(6.58), 1620.50(1.49), 785.37(1.102)
1078.63 ²⁰	\dagger 2.2 ³	¹⁴⁴ Cs(1.01 s)	199.326(\dagger 100.0), 639.00(\dagger 21.2), 758.96(\dagger 20.6)
1078.7 ¹	11.5 ³	¹⁴² Ba(10.6 m)	255.300(20.5), 1204.3(14.23), 895.2(13.9)
1078.76 ³	0.063 ⁷	¹⁴⁹ Nd(1.728 h)	211.309(25.9), 114.314(19.2), 270.166(10.7)
• 1078.8 ¹⁴	0.006 ⁶	⁸³ Sr(32.41 h)	762.65(30), 381.53(14.1), 418.37(4.41)
1078.80 ⁷	0.074 ³	¹⁵¹ Tb(17.609 h)	287.357(28.3), 251.863(26.3), 108.088(24.3)
1078.8 ⁸	0.10 ³	¹⁵⁹ Er(36 m)	624.5(33), 649.1(23.4), 205.92(9.7)
1078.86 ⁴	27.7 ¹⁰	²⁴⁶ Am(25.0 m)	798.80(25), 1062.04(17.1), 1036.00(12.6)
• 1078.86 ⁴	3.70 ²⁸	²⁴⁶ Bk(1.80 d)	798.80(61), 1081.40(5.8), 833.60(5.0)
1078.876 ^{220.474}	10	¹⁶⁶ Tm(7.70 h)	778.817(18.9), 2052.36(17.2), 184.410(16.1)
1078.88 ⁹	0.10 ¹	⁸⁷ Br(55.60 s)	1419.71(22.0), 1476.04(7.9), 1577.60(6.0)
1078.88 ¹⁵	0.0015	²³⁹ U(23.45 m)	74.664(48), 43.533(4.14), 662.24(0.18)
• 1078.91 ³	0.43 ³	¹⁴⁵ Eu(5.93 d)	893.73(66), 653.512(15.0), 1658.53(14.9)
1079.0 ³	0.156 ²¹	¹¹⁸ I(13.7 m)	605.71(86.0), 545.12(10.9), 600.71(10.2)
1079.0 ³		¹¹⁸ I(8.5 m)	605.71(99), 600.71(92), 614.42(65)
1079.0 ³	1.72 ¹⁷	¹²⁸ La(5.0 m)	284.00(87), 479.24(54), 643.65(14.7)
1079.025 ²⁵	\dagger 16.2 ⁴	¹⁴⁸ Tb(60 m)	784.430(\dagger 119.0), 489.049(\dagger 28.0), 631.947(\dagger 15.1)
1079.1 ¹⁰	0.0051 ¹⁷	²⁴⁵ Pu(10.5 h)	327.428(25.4), 560.13(5.4), 308.222(4.9)
1079.2	0.16	⁴³ Ar(5.37 m)	975.0(34), 738.1(15), 1439.5(13)
• 1079.24	4.589 ¹⁸	¹⁵⁶ Eu(15.19 d)	811.79(9.70), 88.9667(8.4), 1230.68(7.98)
1079.3 ³	1.32 ¹¹	⁹⁵ Rh(5.02 m)	941.6(72), 1352.0(20.8), 677.6(5.80)
1079.3 ²	0.32 ³	¹⁵² Pm(4.1 m)	121.7824(15.7), 841.586(2.17), 961.06(1.92)
1079.3	0.10	¹⁸⁵ Ir(14.4 h)	254.4(13.3), 1828.8(10), 60.0(5.7)
1079.4 ³	0.057 ²¹	¹⁶² Tm(21.70 m)	102.00(17.5), 798.68(8.4), 227.52(7)
1079.5	0.015 ⁷	¹⁵¹ Nd(12.44 m)	116.80(43.4), 255.68(16.4), 1180.89(14.8)
1079.5 ³	\dagger 3.4 ⁵	¹⁸¹ Pt(51 s)	289.29(\dagger 100), 111.97(\dagger 100), 230.15(\dagger 92)
1079.628 ^{300.092}	3	¹⁶⁵ Dy(2.334 h)	94.700(3.58), 361.68(0.84), 633.415(0.568)
1079.63 ¹⁴	0.55 ¹¹	¹³³ Te(55.4 m)	912.671(55.28), 647.51(19.4), 863.955(15.6)
1079.67 ²²	1.62 ¹¹	⁷⁸ As(90.7 m)	613.725(54), 694.916(16.7), 1308.59(13.0)
1079.67 ¹⁰	0.52 ¹³	¹³³ Sb(2.5 m)	1096.22(43.0), 817.8(18.5), 2755(12.5)
1079.7 ⁵	\dagger 0.36 ¹⁵	¹⁸⁸ Au(8.84 m)	265.63(\dagger 100), 340.04(\dagger 23.9), 605.5(\dagger 16.3)
1079.8 ³	0.75 ⁷	⁹⁸ Rb(114 ms)	144.224(24.5), 1693.3(5.9), 2171.7(5.7)
1079.8 ³	\dagger 90	⁹⁹ Rb(59 ms)	144.224(\dagger 900), 289.4(\dagger 270), 655.9(\dagger 81)
1079.8 ⁵	0.28 ¹⁰	¹⁴⁰ Xe(13.60 s)	805.52(20), 1413.66(12.2), 1315.05(8.2)
1079.90 ⁷	5.44 ¹⁴	¹⁰³ Cd(7.3 m)	1461.81(12), 1448.70(5.55), 386.97(3.60)
1079.9 ⁴	0.15 ³	¹³⁹ Pm(4.15 m)	402.8(15), 463.1(4.1), 367.8(3.52)
1080.00 ⁹	0.83 ⁸	¹²² In(10.3 s)	1140.55(98), 1001.58(50.7), 1190.58(20.5)
1080.0 ³	0.79 ²⁴	¹⁴⁸ Pr(2.27 m)	301.702(61), 1357.78(5.5), 1023.18(4.8)
1080.09 ⁵	0.237 ¹⁵	¹⁵¹ Nd(12.44 m)	116.80(43.4), 255.68(16.4), 1180.89(14.8)
1080.09 ⁵	0.030 ¹⁵	¹⁵¹ Nd(12.44 m)	116.80(43.4), 255.68(16.4), 1180.89(14.8)
1080.1 ⁴	0.46 ⁹	⁷⁴ Br(46 m)	634.78(91), 728.37(35.6), 634.26(16.4)
1080.16 ⁹	\dagger 1.04 ⁹	¹⁵⁸ Ho(11.3 m)	218.21(\dagger 100.0), 98.91(\dagger 70), 945.7(\dagger 37)
1080.16 ⁶	0.0123 ⁷	²¹¹ Pb(36.1 m)	404.853(3.78), 832.01(3.52), 427.088(1.76)
1080.2 ¹⁰	0.32 ¹³	⁷⁴ Br(25.4 m)	634.78(64), 219.05(18.1), 634.26(14.1)
1080.2 ³	0.88 ¹⁵	⁹⁸ Sr(0.653 s)	119.353(73), 444.628(39), 428.4(31)
1080.2 ⁶	0.5	¹¹⁶ Ag(2.68 m)	513.39(76), 2478.5(12), 699.58(11)
1080.2 ⁴	0.102 ⁸	¹⁴³ Ba(14.33 s)	211.475(25), 798.79(15.6), 980.45(11.55)
1080.21 ⁸	5.6 ³	¹⁷⁷ Yb(1.911 h)	150.392(20.3), 1241.2(3.47), 121.6211(3.42)
1080.3 ²	23.3 ²⁴	⁸² As(13.6 s)	654.6(72), 343.5(58), 1895.4(39)
1080.3 ²	1.69 ¹⁴	⁸² As(19.1 s)	654.6(15), 1731.3(4.1), 755.2(1.81)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
1080.3 3	0.30 4	¹⁶⁷ Dy(6.20 m)	569.7(48), 259.33(27.9), 310.26(25.0)
1080.4 2	0.46 9	⁷⁴ Br(46 m)	634.78(91), 728.37(35.6), 634.26(16.4)
1080.4 2	0.18 3	¹⁹⁷ Pb(43 m)	385.85(74), 387.72(25.1), 222.45(24.6)
1080.5 3	0.89 7	¹⁴⁹ Dy(4.20 m)	100.8(15.2), 789.4(11.8), 1776.3(11.1)
1080.5 5	†0.125 21	¹⁹⁶ Ir(1.40 h)	393.346(†105.2), 521.175(†104), 447.1(†102.1)
1080.51 12	0.0021 3	¹⁸ Ne(1672 ms)	1041.52(7.83), 659.25(0.132), 1700.72(0.056)
1080.57 13	0.30 3	¹⁸⁷ Au(8.4 m)	1331.81(7.0), 1408.23(3.06), 914.73(3.02)
1080.6 7	0.041 14	⁹³ Kr(1.286 s)	253.42(41.2), 323.89(24.1), 266.83(20.6)
1080.6 3	0.275 20	⁹⁹ Nb(2.6 m)	97.785(7), 253.50(3.64), 2641.3(3.64)
1080.6 1	0.052 5	¹⁴¹ Pm(20.90 m)	1223.26(4.74), 886.22(2.44), 193.68(1.61)
1080.61 8	0.192 12	⁸⁹ Br(4.40 s)	1097.82(6.00), 997.93(4.26), 953.53(4.26)
1080.64 6	0.123 9	¹⁸⁷ Ir(10.5 h)	912.95(4.79), 427.12(4.12), 400.89(3.94)
• 1080.68 4	0.906 25	¹⁷² Lu(6.70 d)	1093.657(62.5), 900.724(29.8), 181.528(20.6)
1080.7 4	7.1 7	¹¹⁶ Cs(3.84 s)	393.5(<0.09), 524.3(76), 615.1(30.4)
1080.7	†5.0 5	¹⁷⁸ Ir(12 s)	266.1(†100.0), 131.6(†79), 363.1(†39.9)
1080.7 3	†29 4	¹⁹³ Hg(3.80 h)	861.11(†100), 1118.84(†64), 789.21(†36)
1080.72 11	0.490 24	⁸¹ Sr(22.3 m)	153.54(33.8), 147.76(30.1), 443.34(17.5)
1080.82 8	0.241 5	⁷⁷ Ge(11.30 h)	264.44(54), 211.03(30.8), 215.50(28.6)
1080.83 8	0.074 11	¹⁸⁹ Pt(10.87 h)	721.41(9.3), 94.33(7.6), 568.84(7.1)
1080.88 8	1.00 8	¹⁸⁶ Ir(2.0 h)	137.155(27), 767.508(21.2), 630.354(18.0)
1080.96 19	0.025 3	¹⁵¹ Tb(17.609 h)	287.357(28.3), 251.863(26.3), 108.088(24.3)
1081 1	†3.4 7	¹⁰³ Mo(67.5 s)	83.4(†100), 423.91(†69), 45.8(†57)
• 1081.0 6	0.073 21	¹⁴⁷ Gd(38.06 h)	229.32(63), 396.00(34.3), 929.01(20.2)
1081.0 3	†4.4 19	¹⁷¹ Hf(12.1 h)	122.0(†100), 662.2(†83), 347.18(†47)
1081.0 5	†3.1 6	¹⁹¹ Tl(5.22 m)	452.6(†100), 470.1(†98), 391.6(†96)
1081.0 15		²⁰⁷ At(1.80 h)	814.41(44.5), 588.33(19.2), 300.654(12.8)
1081.0 4	0.08 2	²⁰⁸ Rn(24.35 m)	426.78(7.07), 251.05(5.02), 350.026(3.34)
1081.04 11	0.0033 5	¹³³ La(3.912 h)	278.835(2.50), 302.353(1.648), 290.06(1.413)
1081.05 5	0.0201 6	¹²⁷ Cs(6.25 h)	411.95(62.8), 124.70(11.37), 462.31(5.07)
1081.1 2	0.26 4	¹³³ Ce(4.9 h)	477.22(39), 510.36(20.7), 58.39(19.2)
1081.11 5	0.0161 11	¹²⁸ Cs(3.66 m)	442.901(26.8), 526.557(2.41), 1140.079(1.168)
• 1081.2 5		¹⁴⁶ Eu(4.59 d)	747.2(98), 633.03(43), 634.07(37)
1081.21 19	2.5 8	⁴⁵ Ar(21.48 s)	1020.04(34.0), 3703.2(33.3), 61.35(25.0)
• 1081.29 4	0.618 17	⁸² Br(35.30 h)	776.517(83.5), 554.348(70.8), 619.106(43.4)
1081.29 4	0.00044	⁸² Br(6.13 m)	776.517(0.26), 698.374(0.0340), 1474.88(0.0198)
1081.29 4	0.00027 13	⁸² Rb(1.273 m)	776.517(13), 1395.139(0.471), 698.374(0.133)
1081.29 4	1.31 4	⁸² Rb(6.472 h)	776.517(84), 554.348(62.4), 619.106(37.976)
1081.3 2	0.79 4	¹⁴⁶ Pr(24.15 m)	453.88(48.0), 1523.7(15.6), 735.72(7.5)
• 1081.35 10	1.60 3	¹¹⁹ Te(4.70 d)	153.59(66), 1212.73(66), 270.53(28.0)
1081.38 20	0.52 3	¹⁵⁶ Ho(56 m)	266.35(54.7), 137.83(51), 366.25(10.73)
1081.4 3	0.023 6	⁸⁹ Rb(15.15 m)	1031.94(58), 1248.19(42.6), 2196.02(13.3)
1081.4 3	1.75 19	¹⁵¹ Ho(35.2 s)	527.4(63), 775.53(9.2), 209.5(5.69)
1081.4 3	0.063 17	¹⁵³ Dy(6.4 h)	80.723(11.10), 213.754(10.90), 99.659(10.51)
1081.40 6	0.69 6	¹⁵⁵ Ho(48 m)	240.19(12.5), 136.30(5.00), 45.38(5)
1081.40 6	0.34 5	²⁴⁶ Am(25.0 m)	1078.86(27.7), 798.80(25), 1062.04(17.1)
• 1081.40 6	5.8 4	²⁴⁶ Bk(1.80 d)	798.80(61), 833.60(5.0), 1124.29(4.4)
1081.45 2	0.044 6	¹⁷⁸ Lu(28.4 m)	93.180(6.0), 1340.8(3.22), 1310.05(1.40)
1081.45 2	0.0180 8	¹⁷⁸ Ta(9.31 m)	93.180(1.78), 1350.68(1.18), 1340.8(1.027)
• 1081.46 8	0.029 10	¹⁵⁰ Eu(35.8 y)	333.971(96), 439.401(80.4), 584.274(52.6)
1081.5 5	0.13 7	¹⁰⁹ Ru(34.5 s)	206.29(22.0), 225.98(19.6), 1929.05(13.7)
• 1081.58 3	0.0181 7	¹⁴⁹ Gd(9.28 d)	149.735(48.2), 298.634(28.6), 346.651(23.9)
1081.66 11	1.03 10	⁶⁷ Ge(18.9 m)	167.01(84), 1472.48(4.9), 910.92(3.1)
• 1081.7 3	5×10 ⁻⁸ 3	²⁴² Cm(162.8 d)	44.08(0.0325), 101.90(0.0025), 157.42(0.0014)
1081.8 4	0.035 8	¹³² I(2.295 h)	667.718(99), 772.60(75.6), 954.55(17.6)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
• 1081.8 19	0.030 18	¹⁹⁴ Au(38.02 h)	328.455(60), 293.545(10.2), 1468.91(6.3)
1081.9 4	0.165 24	¹⁰⁷ In(32.4 m)	204.97(47), 505.51(11.9), 320.92(10.2)
1081.9 4	0.043 7	¹³⁸ Pr(1.45 m)	788.742(2.4), 688.2(0.82), 1551.1(0.42)
1081.9 3	0.19 3	¹⁴¹ Eu(40.0 s)	394.0(9), 384.5(5.6), 382.9(2.97)
• 1082.0 10	0.00061 24	⁹⁹ Mo(65.94 h)	739.50(12.1), 181.063(6.08), 140.511(4.52)
1082.0 5	0.11	¹⁵⁴ Pm(1.73 m)	2057.76(17.1), 1393.9(14.4), 81.99(12.6)
1082 1	0.11 5	²⁰⁹ Rn(28.5 m)	408.32(50.3), 745.78(22.8), 337.45(14.5)
• 1082.096 170.189 4		¹⁴⁸ Eu(54.5 d)	550.284(98.5), 629.987(71.9), 611.293(20.5)
1082.1 7	2.5 4	⁸⁵ Se(31.7 s)	345.2(<0.23), 3396.6(7.4), 1427.2(7.0)
1082.1 3	†233 48	¹⁵⁷ Ho(12.6 m)	279.97(†47600), 341.16(†37000), 193.41(†15200)
• 1082.10 30	0.026 3	¹⁷⁰ Lu(2.00 d)	84.2551(4.256), 1280.25(3.450), 2041.88(1.434)
1082.19 20	0.34 6	¹²⁸ In(0.84 s)	1168.80(40), 935.20(6.5), 1089.53(6.0)
1082.19 20	1.0 2	¹²⁸ In(0.72 s)	831.54(100), 1168.80(100), 120.54(11.1)
1082.2 1	0.31 5	¹⁰⁹ Ru(34.5 s)	206.29(22.0), 225.98(19.6), 1929.05(13.7)
1082.20 27	0.13 3	¹⁴¹ Xe(1.73 s)	909.23(24.0), 118.705(16.1), 105.937(9.8)
1082.2 4	0.59 19	¹⁵⁷ Tm(3.63 m)	455.00(9.3), 385.5(8.8), 348.40(8.4)
1082.29 8	0.0207 13	⁹¹ Mo(15.49 m)	1636.99(0.329), 1581.04(0.226), 2631.97(0.118)
1082.29 8	0.50 3	⁹¹ Mo(65.0 s)	1507.93(24.3), 1208.09(18.7), 2240.87(0.73)
1082.3 3	2.65 9	⁸³ Se(22.3 m)	356.687(70), 510.17(43), 224.8(32.7)
1082.3 2	0.0093 17	¹²¹ I(2.12 h)	212.189(84), 532.08(6.07), 598.74(1.47)
1082.33 8	2.48 22	¹⁰⁰ Y(735 ms)	212.531(73), 118.59(15.4), 665.98(7.7)
1082.36 4	0.121 5	¹⁸³ Os(13.0 h)	381.768(89.6), 114.463(20.63), 167.844(8.81)
1082.4 20	0.029 5	¹⁴⁵ Gd(23.0 m)	1757.9(34.2), 1880.6(32.6), 1041.8(9.9)
1082.5 4	0.110 8	¹⁴³ Ba(14.33 s)	211.475(25), 798.79(15.6), 980.45(11.55)
1082.5 3	0.24 4	¹⁸³ Au(42.0 s)	161.18(9.4), 214.13(5.9), 313.08(5.0)
1082.53 4	103 4	⁸⁸ Nb(14.5 m)	1057.01(100), 671.20(64), 502.91(60)
1082.53 4	53.9 25	⁸⁸ Nb(7.8 m)	1057.01(89.3), 399.41(45.7), 450.52(26.6)
1082.56 16	0.061 14	¹⁰⁵ Cd(55.5 m)	961.84(4.69), 346.870(4.20), 1302.459(3.98)
1082.6 4	0.141 25	⁸⁴ Br(31.80 m)	881.610(42), 1897.761(14.7), 3927.5(6.8)
1082.60 20	1.8 4	¹⁰² Nb(4.3 s)	296.611(79), 1633.10(41), 551.54(30)
1082.6 4	0.014 5	¹⁸⁰ Re(2.44 m)	902.795(90), 103.557(22.2), 825.357(9.9)
1082.6 5	0.076 12	²⁰⁸ At(1.63 h)	686.527(98), 660.040(89), 177.595(48.6)
1082.70 20	0.0080 19	¹⁰⁵ Ru(4.44 h)	724.21(47), 469.37(17.5), 676.36(15.7)
1082.7 6	0.55 9	¹⁴⁴ La(40.8 s)	397.440(94.3), 541.20(39.2), 844.8(22.3)
1082.7 5	0.030 15	¹⁵¹ Nd(12.44 m)	116.80(43.4), 255.68(16.4), 1180.89(14.8)
1082.7 2	0.57 4	²⁰⁵ At(26.2 m)	719.30(31), 669.41(8.6), 628.88(5.6)
1082.8 5	0.50 8	¹²¹ Xe(40.1 m)	252.7(13), 132.8(10.9), 445.2(7.7)
1082.9 1	†0.27 5	¹⁶⁰ Ho(5.02 h)	728.18(†100), 879.383(†65.9), 962.317(†59.1)
1082.9 4	0.14 5	¹⁷⁷ W(135 m)	115.65(50), 426.98(13.2), 1036.4(10.3)
1082.90 20	0.069 9	¹⁹⁵ Hg(9.9 h)	779.80(7), 61.46(6.2), 585.13(1.99)
1083.0 7	†8	⁸⁷ Nb(2.6 m)	200.95(†100), 470.63(†73), 1066.8(†37)
1083.0 3	†2.0 6	¹⁰³ Nb(1.5 s)	102.64(†100), 641.1(†55), 538.5(†34.0)
1083.0 2	†1.8 2	¹⁰⁴ Nb(0.92 s)	192.2(†100), 368.4(†20), 620.2(†19.2)
1083.0 3	0.27 4	¹⁶⁷ Lu(51.5 m)	29.66(14.4), 239.22(8.6), 213.19(3.6)
1083.0 8	0.16 7	¹⁷⁵ Ta(10.5 h)	207.4(14.0), 348.5(12.0), 266.9(10.8)
1083.0 7	0.27 14	²⁰⁷ Rn(9.25 m)	344.53(46), 747.15(14.2), 402.68(11.9)
1083.1 10	0.20 5	¹³⁸ Pr(2.12 h)	1037.8(101), 788.742(100), 302.7(80)
1083.2 3	2.8 7	⁸¹ Ge(7.6 s)	335.98(58.9), 792.94(34), 1495.53(19.9)
1083.2 10	0.28 3	²²⁸ Fr(39 s)	473.7(10.2), 474.0(7.6), 410.40(6.3)
1083.2 1	0.50 3	²³⁴ Pa(6.70 h)	131.30(18), 946.00(13.4), 883.24(9.6)
1083.2 1	†8.9×10 ²	²³⁴ Pa(1.17 m)	1001.03(†837000), 766.38(†294000), 742.81(†80000)
1083.22 6	0.83 5	⁸¹ Ga(1.221 s)	216.47(37.4), 828.26(22.1), 711.18(17.6)
1083.3 3	0.66 8	¹⁴⁹ Dy(4.20 m)	100.8(15.2), 789.4(11.8), 1776.3(11.1)
1083.30 8	0.35 4	¹⁷⁴ Ta(1.05 h)	206.50(58), 91.00(16.0), 1205.92(4.9)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
1083.341	310.18 3	¹⁵⁰ Pm(2.68 h)	333.971(68), 1324.51(17.5), 1165.739(15.8)
• 1083.341	310.163 10	¹⁵⁰ Eu(35.8 y)	333.971(96), 439.401(80.4), 584.274(52.6)
1083.4	0.26	⁸³ As(13.4 s)	734.60(43), 1113.10(14.7), 2076.70(11.9)
1083.4 2	0.353 13	¹⁴³ Cs(1.78 s)	195.554(13), 232.421(8.32), 306.424(6.80)
1083.42 6	0.81 4	⁹³ Kr(1.286 s)	253.42(41.2), 323.89(24.1), 266.83(20.6)
1083.46 5		¹⁶⁸ Lu(5.5 m)	1483.65(†100), 228.58(†97), 111.8(†68)
1083.46 5	5.4 6	¹⁶⁸ Lu(6.7 m)	198.82(28), 979.22(20), 896.12(15)
1083.47 4	48.4 16	⁸⁰ Ga(1.697 s)	659.14(78.0), 1109.36(18.6), 523.18(10.1)
1083.5 3	†2.5 5	¹⁸⁹ Hg(7.6 m)	320.99(†100), 78.21(†63), 565.42(†48)
1083.6 5	0.081 18	¹⁴¹ Eu(40.0 s)	394.0(9), 384.5(5.6), 382.9(2.97)
1083.6 8	0.086 16	²²⁶ Fr(48 s)	253.73(22.3), 186.05(16.3), 253.9(2.5)
1083.7 4	0.009 3	¹¹⁹ I(19.1 m)	257.52(87), 635.86(2.69), 320.53(2.17)
1083.75 14	0.26 9	¹³³ Sb(2.5 m)	1096.22(43.0), 817.8(18.5), 2755(12.5)
1083.8 7	0.52 17	¹²⁹ Sb(4.40 h)	812.8(43), 914.6(20.0), 544.7(17.9)
1083.85 5	0.493 15	¹²⁹ Te(69.6 m)	27.81(16.3), 459.60(7.70), 487.39(1.42)
• 1083.864	340.0115 8	⁷¹ As(65.28 h)	174.954(82.00), 1095.490(4.08), 499.876(3.624)
1083.9 5	0.60 9	¹⁰⁹ Sn(18.0 m)	1099.4(30), 649.90(28.0), 1321.3(11.9)
1083.9 5	0.034 7	²⁴⁵ Pu(10.5 h)	327.428(25.4), 560.13(5.4), 308.222(4.9)
1084.0 3	0.49 3	¹⁴⁷ Pr(13.4 m)	77.9921(15), 314.675(13.2), 641.380(10.0)
1084.0 3	0.028 7	¹⁵¹ Nd(12.44 m)	116.80(43.4), 255.68(16.4), 1180.89(14.8)
• 1084 1	0.244 8	¹⁵² Eu(13.542 y)	121.7824(28.4), 1408.011(20.87), 964.131(14.34)
1084.0 4	†50	²³⁸ Pa(2.3 m)	1015.3(†<100), 1014.6(†<100), 635.18(†88)
1084.1 5	†3.7 6	¹⁵² Tb(17.5 h)	344.281(†1500), 586.294(†223), 271.135(†203)
1084.181	140.37 12	²⁴⁴ Am(26 m)	941.95(0.36), 1062.953(0.28), 1041.278(0.19)
1084.21 14	0.37 4	¹⁵⁴ Tb(9.4 h)	123.071(30), 247.925(22.1), 540.18(20)
1084.25 23	3.12 18	¹⁰⁶ In(5.2 m)	632.66(92), 1714.90(17.1), 861.16(10.6)
1084.25 5	0.376 19	¹⁴⁶ La(6.27 s)	258.47(64), 924.58(7.45), 702.28(6.43)
1084.29 12	0.37 4	¹⁵⁴ Tb(9.4 h)	123.071(30), 247.925(22.1), 540.18(20)
1084.29 12		¹⁵⁴ Tb(21.5 h)	123.071(26), 1274.436(10.5), 2187.10(9.9)
1084.3 5	0.73 12	¹¹⁷ Xe(61 s)	28.5(7.0), 221.3(10.0), 32.3(7.6)
1084.3 6	0.75 14	¹⁴⁴ La(40.8 s)	397.440(94.3), 541.20(39.2), 844.8(22.3)
1084.3 4	†3.0 4	¹⁸² Au(21 s)	154.76(†100), 264.33(†40.0), 855.41(†14.5)
1084.32 3	5.0 4	¹²³ Cd(2.10 s)	371.32(51), 1052.28(24.8), 1438.13(8.3)
1084.33 5	†6.6 3	¹⁸⁸ Au(8.84 m)	265.63(†100), 340.04(†23.9), 605.5(†16.3)
1084.39 16	†9.7 9	¹⁵⁹ Yb(1.58 m)	166.16(†500), 177.12(†159), 390.20(†113)
1084.4 3	0.25 5	⁹⁵ Rb(377.5 ms)	352.02(49), 204.02(15.1), 680.7(14.8)
1084.4 3		¹⁴⁶ Dy(29 s)	2156.8, 1915.7, 1876.7
1084.4 3	0.21 7	¹⁵⁶ Tm(83.8 s)	344.55(86), 452.85(17.2), 585.93(14.6)
1084.5 1	0.016 3	¹¹³ Ag(5.37 h)	298.58(10), 258.8(1.64), 316.3(1.343)
1084.5 5	0.60 8	¹¹⁷ I(2.22 m)	325.9(75), 274.4(20.4), 661.5(5.1)
1084.5 10	†1.2 5	¹⁷¹ Hf(12.1 h)	122.0(†100), 662.2(†83), 347.18(†47)
1084.5 7	0.03 3	¹⁹² Au(4.94 h)	316.50791(58.0), 295.95827(22.3), 2236.89(5.6)
1084.6 4	0.75 9	¹¹⁷ Cs(8.4 s)	204.8(15.0), 29.7(9.9), 205.6(6.8)
1084.6 1	3.81 20	²⁰⁰ Po(11.5 m)	671.0(34.0), 617.7(19.7), 434.4(9.3)
1084.7 1	0.44 7	¹⁰⁹ Ru(34.5 s)	206.29(22.0), 225.98(19.6), 1929.05(13.7)
1084.7 2	0.0170 14	¹⁵¹ Tb(17.609 h)	287.357(28.3), 251.863(26.3), 108.088(24.3)
1084.8 6	†1.2 6	¹⁰¹ Nb(7.1 s)	276.10(†100), 157.466(†32), 13.5(†32)
1084.8 3	0.50 8	¹⁸⁴ Au(53.0 s)	162.97(50), 272.98(40), 362.47(17.5)
1084.826	170.363 8	¹⁶⁶ Tm(7.70 h)	778.817(18.9), 2052.36(17.2), 184.410(16.1)
1084.9 5	0.0069 23	⁷⁹ Rb(22.9 m)	688.1(23), 182.77(19.2), 143.41(13.9)
1084.9 5	0.43 4	¹²⁷ Ba(12.7 m)	180.8(12), 114.8(9.3), 66.06(2.12)
1084.98 10	0.031 5	⁹⁵ Ru(1.643 h)	336.43(70.2), 1096.76(21.0), 626.77(17.8)
1085	†1.2	¹⁰⁷ Sn(2.90 m)	1129.2(†100), 678.5(†100), 1540.6(†30)
1085 2	†3	¹⁸⁹ Au(28.7 m)	713.17(†100), 812.68(†63), 447.65(†55)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
1085.1	0.15 5	²⁰⁹ Rn(28.5 m)	408.32(50.3), 745.78(22.8), 337.45(14.5)
1085.13	1.61 12	¹²⁷ In(3.66 s)	252.3(38), 3074(2.85), 948.4(2.73)
1085.15 6	1.52 5	²⁴⁶ Am(25.0 m)	1078.86(27.7), 798.80(25), 1062.04(17.1)
• 1085.15 6	0.38 4	²⁴⁶ Bk(1.80 d)	798.80(61), 1081.40(5.8), 833.60(5.0)
1085.19 3	6.05 13	⁷⁷ Ge(11.30 h)	264.44(54), 211.03(30.8), 215.50(28.6)
1085.3 8	0.041 7	⁷¹ Zn(3.96 h)	386.28(93), 487.38(62), 620.18(57)
1085.3 2	0.018 4	¹¹⁹ I(19.1 m)	257.52(87), 635.86(2.69), 320.53(2.17)
1085.3 6	0.49 4	¹⁶⁷ Lu(51.5 m)	29.66(14.4), 239.22(8.6), 213.19(3.6)
• 1085.3 1	0.0232 19	²³² Pa(1.31 d)	969.315(41.6), 894.351(19.8), 150.059(10.8)
1085.3 1	0.99 5	²³² Np(14.7 m)	327.3(52), 819.187(33.3), 866.760(24.4)
1085.40 20	0.0047 14	¹⁰⁵ Ru(4.44 h)	724.21(47), 469.37(17.5), 676.36(15.7)
1085.4	0.039	¹⁴⁸ Dy(3.1 m)	620.24(96), 1247.2(1.4), 178.3(0.5)
1085.4 2	0.027 7	²³⁴ Pa(6.70 h)	131.30(18), 946.00(13.4), 883.24(9.6)
1085.4 2	†480 90	²³⁴ Pa(1.17 m)	1001.03(†837000), 766.38(†294000), 742.81(†80000)
• 1085.4 2	0.019 4	²³⁴ Np(4.4 d)	1558.31(18.72), 1527.21(11.2), 1601.80(9.1)
• 1085.4 2	9.2×10^{-8}	¹⁰⁷ ²³⁸ Pu(87.74 y)	43.498(0.0395), 99.853(0.00735), 152.720(0.000937)
1085.43 13	0.47 5	¹³³ Ce(4.9 h)	477.22(39), 510.36(20.7), 58.39(19.2)
1085.5	0.05 3	¹⁴⁹ Tb(4.118 h)	352.24(29.43), 164.98(26.4), 388.57(18.37)
1085.5 2	0.30 9	¹⁷³ Ta(3.14 h)	172.2(18), 69.70(5.9), 90.3(5.0)
• 1085.526 200.062 11		¹¹⁰ Ag(249.79 d)	657.7622(94.0), 884.685(72.2), 937.493(34.13)
1085.526 201.37 5		¹¹⁰ In(4.9 h)	657.7622(98.3), 884.685(92.9), 937.493(68.4)
1085.58 13	0.039 7	¹¹⁰ In(69.1 m)	657.7622(98), 2129.53(2.13), 2211.49(1.76)
1085.58 9	6.76 23	¹⁷² Ta(36.8 m)	214.02(46), 95.23(17.5), 1109.27(12.4)
• 1085.60 14	0.019 4	¹⁵³ Tb(2.34 d)	212.038(31.0), 170.504(6.8), 109.758(6.4)
1085.6 1	†1.06 9	¹⁵⁸ Ho(11.3 m)	218.21(†100.0), 98.91(†70), 945.7(†37)
1085.6 4	0.084 21	¹⁸⁷ Au(8.4 m)	1331.81(7.0), 1408.23(3.06), 914.73(3.02)
1085.7 3	0.42 8	¹¹⁸ Cs(14 s)	337.4(100), 472.8(37.4), 586.6(15.4)
1085.8 6	0.12 6	¹⁰¹ Zr(2.1 s)	119.3(10.8), 205.6(6.0), 912.2(3.48)
1085.8 4	2.54 20	¹⁵³ Ho(2.0 m)	295.8(67), 637.0(5.36), 688.5(3.7)
1085.8 3	0.00033	¹⁷³ Hf(23.6 h)	123.672(83), 296.974(33.9), 139.634(12.7)
1085.8 4	†0.22 3	¹⁸⁴ Ir(3.09 h)	263.97(†100), 119.80(†45), 390.38(†38)
1085.8 7	0.23 3	¹⁹⁹ Bi(27 m)	560.1(22.0), 424.85(22), 841.7(11)
1085.9 3	0.117 22	⁹¹ Kr(8.57 s)	108.788(43.5), 506.592(19.1), 612.87(7.7)
1085.9 2	†17 3	¹⁰³ Mo(67.5 s)	83.4(†100), 423.91(†69), 45.8(†57)
1085.9 7	†0.27 14	¹²⁰ I(81.0 m)	560.44(†137), 1523.0(†21.1), 640.85(†17.1)
1085.9 3	1.64 14	¹⁵⁴ Ho(11.76 m)	334.6(84), 412.4(15.0), 873.4(12.5)
1085.90 22	1.3 4	¹⁸¹ Os(105 m)	238.75(44), 826.77(20), 118.03(12.9)
1085.914 3	0.042 8	¹⁵² Pm(4.1 m)	121.7824(15.7), 841.586(2.17), 961.06(1.92)
1085.914 3	1.26 11	¹⁵² Pm(7.52 m)	244.6989(78), 121.7824(45), 340.48(31.3)
• 1085.914 3	9.92 15	¹⁵² Eu(13.542 y)	121.7824(28.4), 1408.011(20.87), 964.131(14.34)
1086.1	0.025 8	⁸² Rb(6.472 h)	776.517(84), 554.348(62.4), 619.106(37.976)
1086.1 4	0.13 3	¹²¹ Ag(0.78 s)	314.55(32.1), 353.43(19.9), 500.61(9.3)
1086.2 4	0.079 20	¹³² I(2.295 h)	667.718(99), 772.60(75.6), 954.55(17.6)
1086.2 6	†1.6 8	¹⁹³ Tl(21.6 m)	324.37(†100), 1044.7(†59), 676.10(†48)
• 1086.20 20	0.048 7	¹⁹⁵ Hg(41.6 h)	261.75(30.9), 560.27(7), 387.87(2.15)
• 1086.30 25	0.035 5	⁸³ Sr(32.41 h)	762.65(30), 381.53(14.1), 418.37(4.41)
1086.3 4	0.027 9	¹²⁰ Xe(40 m)	25.1(30), 72.6(9), 178.1(6.8)
• 1086.3 2	0.033 5	¹²⁴ Sb(60.20 d)	602.730(97.8), 1690.980(47.3), 722.786(10.76)
• 1086.3 2	0.018 6	¹²⁴ I(4.18 d)	602.730(60), 1690.980(10.41), 722.786(9.98)
1086.3 1	0.0057 6	¹²⁷ Cs(6.25 h)	411.95(62.8), 124.70(11.37), 462.31(5.07)
1086.3 3	†5.8 9	¹⁵² Tb(17.5 h)	344.281(†1500), 586.294(†223), 271.135(†203)
1086.3 3	†1.2 2	¹⁷² Ir(2.0 s)	227.8(†100.0), 378.4(†62.0), 448.4(†40.5)
1086.4 6	0.085 19	¹⁰⁷ In(32.4 m)	204.97(47), 505.51(11.9), 320.92(10.2)
1086.4 6	0.09 3	¹⁵⁹ Er(36 m)	624.5(33), 649.1(23.4), 205.92(9.7)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
1086.5 5	3.1 9	¹¹⁰ Rh(28.5 s)	373.80(91), 546.90(42.4), 687.70(25.8)
1086.5 2	0.247 25	¹²⁹ La(11.6 m)	278.6(25), 110.5(16.9), 457.0(8.0)
1086.52 9	0.0278 17	¹²¹ I(2.12 h)	212.189(84), 532.08(6.07), 598.74(1.47)
• 1086.6 2	0.540 20	¹⁴⁶ Eu(4.59 d)	747.2(98), 633.03(43), 634.07(37)
1086.6 3	0.34 5	¹⁸¹ Au(11.4 s)	198.60(4.4), 2022.4(4.2), 79.40(4.2)
1086.66 18	>8.0×10 ⁻⁵	¹⁸⁷ W(23.72 h)	685.774(27.3), 479.531(21.8), 72.001(11.14)
1086.7 8	0.070 14	⁹⁰ Rb(258 s)	831.69(94), 1375.36(16.7), 3317.00(14.4)
1086.7 3	0.22 5	¹⁰⁵ Mo(35.6 s)	85.4(25.0), 76.50(19.3), 147.8(14.8)
1086.7 5	0.26 10	¹⁴⁰ Xe(13.60 s)	805.52(20), 1413.66(12.2), 1315.05(8.2)
1086.77 21	0.56 14	¹⁸¹ Re(19.9 h)	365.57(56), 360.70(20), 639.30(6.4)
1086.78 8	0.034 7	⁷³ Se(39.8 m)	67.03(2.59), 253.70(2.356), 84.0(2.03)
1086.79 7	0.050 19	⁷⁸ Rb(17.66 m)	454.97(63), 692.86(12.56), 562.15(11.41)
1086.79 7	0.70 4	⁷⁸ Rb(5.74 m)	454.97(81), 664.44(38.3), 1109.72(13.12)
1086.8 5	0.0012 7	⁸² Rb(1.273 m)	776.517(13), 1395.139(0.471), 698.374(0.133)
• 1086.9 3	0.0336 13	¹⁷⁰ Lu(2.00 d)	84.2551(4.256), 1280.25(3.450), 2041.88(1.434)
1086.9 4	0.068 17	¹⁹¹ Au(3.18 h)	586.45(17), 277.88(7.2), 674.19(6.8)
1086.90 20	0.057 16	¹⁹⁵ Tl(1.16 h)	563.52(10.5), 884.47(10.0), 1363.88(8.4)
1086.9 5	0.33 6	²³⁰ Fr(19.1 s)	711.0(13.6), 129.1(11.0), 728.4(7.3)
1087 1	0.0120 18	⁸¹ Rb(30.5 m)	49.56(0.78), 643.6(0.115), 1194.9(0.112)
1087.0 2	0.086 19	¹³⁴ I(52.6 m)	847.025(95.4), 884.090(64.9), 1072.547(15.0)
1087 1		¹⁷¹ Ta(23.3 m)	49.6(†100), 506.4(†54), 501.8(†22.6)
1087.02 6	0.22 3	²¹⁰ At(8.1 h)	1181.39(99.3), 245.31(79), 1483.39(46.5)
1087.06 10	0.27 3	²⁰⁷ At(1.80 h)	814.41(44.5), 588.33(19.2), 300.654(12.8)
1087.1 5	†41 18	¹⁰⁰ Rh(4.6 m)	539.59(†5900), 687.0(†3500), 1827.2(†1410)
1087.1 4	0.038 7	¹⁴³ La(14.2 m)	620.3(2.34), 643.75(1.55), 621.4(1.52)
1087.1 5	0.008 3	¹⁵¹ Tb(17.609 h)	287.357(28.3), 251.863(26.3), 108.088(24.3)
1087.2 10	0.23 8	¹⁰³ Cd(7.3 m)	1461.81(12), 1448.70(5.55), 1079.90(5.44)
1087.3 3	0.25 5	⁹⁵ Rb(377.5 ms)	352.02(49), 204.02(15.1), 680.7(14.8)
1087.3 3	†2.1	⁹⁶ Rb(0.199 s)	352.02(†700), 204.02(†200), 680.7(†121)
1087.3 1	0.76 17	¹⁴³ Gd(112 s)	271.94(84), 588.00(15.7), 798.89(10.7)
1087.3 1	0.84 17	¹⁴³ Gd(112 s)	271.94(84), 588.00(15.7), 798.89(10.7)
1087.3 3	0.42 6	¹⁴⁹ Dy(4.20 m)	100.8(15.2), 789.4(11.8), 1776.3(11.1)
1087.3 5		¹⁹² Au(4.94 h)	316.50791(58.0), 295.95827(22.3), 2236.89(5.6)
1087.38 6	0.20 3	¹⁵³ Dy(6.4 h)	80.723(11.10), 213.754(10.90), 99.659(10.51)
1087.4	>0.010	²¹⁴ Bi(19.9 m)	609.312(44.8), 1764.494(15.36), 1120.287(14.80)
1087.6 5	0.041 8	⁸⁶ Y(14.74 h)	1076.64(83), 627.72(32.6), 1153.01(30.5)
1087.6 2	1.53 11	¹⁰⁸ In(39.6 m)	632.96(76), 1986.8(12.4), 3452.2(9.2)
1087.6 2	0.55 11	¹⁰⁸ In(58.0 m)	875.46(100), 632.96(100), 242.84(41)
1087.6 5	0.020 6	¹⁵¹ Tb(17.609 h)	287.357(28.3), 251.863(26.3), 108.088(24.3)
1087.6 5	3.0 8	¹⁸³ Lu(58 s)	1125.3(25.0), 1056.8(16.5), 168.1(7.5)
1087.6 6	0.39	²⁰³ Bi(11.76 h)	820.3(30), 825.2(14.6), 896.9(13)
• 1087.6904 20.159 2		¹⁹⁸ Au(2.69517 d)	411.8044(96), 675.8874(0.804)
1087.6904 20.42 25		¹⁹⁸ Tl(5.3 h)	411.8044(82), 675.8874(11), 636.4(10.1)
1087.7 5	0.0070 23	⁸¹ Rb(4.576 h)	190.38(64.0), 446.15(23.2), 510.31(5.3)
1087.7 3	1.4 3	⁹⁸ Pd(17.7 m)	112.0(58), 662.2(19.7), 106.75(13.9)
• 1087.70 10	1.19 5	¹²⁵ Sn(9.64 d)	1067.10(10), 1089.15(4.59), 822.48(4.28)
1087.7 11	0.12 8	¹⁷⁵ Ta(10.5 h)	207.4(14.0), 348.5(12.0), 266.9(10.8)
1087.71 10	0.0122 17	¹³³ I(20.8 h)	529.872(87.0), 875.329(4.51), 1298.223(2.35)
1087.76 15	0.68 10	²⁰⁶ At(30.0 m)	700.66(98), 477.10(86), 395.54(48)
1087.8 3	†0.86 24	¹⁸⁹ Hg(7.6 m)	320.99(†100), 78.21(†63), 565.42(†48)
1087.82 25	0.31 3	¹⁵⁶ Ho(56 m)	266.35(54.7), 137.83(51), 366.25(10.73)
1087.9 5	0.34 3	²²⁶ Fr(48 s)	253.73(22.3), 186.05(16.3), 253.9(2.5)
• 1087.94 6	3.85 17	¹⁰⁵ Ag(41.29 d)	344.520(41), 280.41(30.2), 644.55(11.1)
1087.94 6	†<119	¹⁰⁵ Ag(7.23 m)	319.14(†63000), 306.25(†12800), 442.37(†5900)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
1088.0 5	0.20 6	¹¹¹ Pd(5.5 h)	70.44(8.3), 391.25(5.4), 632.80(3.6)
1088.06 15	0.086 10	²⁰⁸ At(1.63 h)	686.527(98), 660.040(89), 177.595(48.6)
1088.07 10	0.36 3	⁸⁹ Kr(3.15 m)	220.948(20.1), 586.03(16.6), 904.27(7.2)
1088.16 11	2.09 18	¹⁹⁷ Pb(8 m)	385.85(50), 761.14(13.3), 375.48(12.8)
1088.18 5	0.0061 13	²²⁸ Ac(6.15 h)	911.205(26.6), 968.971(16.2), 338.322(11.3)
1088.19 11	0.56 9	¹³³ Sb(2.5 m)	1096.22(43.0), 817.8(18.5), 2755(12.5)
1088.2 5	0.46 14	¹⁵⁷ Tm(3.63 m)	455.00(9.3), 385.5(8.8), 348.40(8.4)
1088.2 5	2.5 4	¹⁷⁴ Re(2.40 m)	243.4(37), 113.0(19.8), 1002.9(5.62)
1088.2 3	0.07	¹⁷⁵ Tm(15.2 m)	514.868(65), 941.23(15), 363.942(12.7)
1088.21 15	0.130 25	²⁰⁸ Rn(24.35 m)	426.78(7.07), 251.05(5.02), 350.026(3.34)
• 1088.23 8	0.101 16	¹⁶⁹ Lu(34.06 h)	960.622(23.4), 191.2137(20.6), 1449.74(9.92)
1088.3 3	5.5 5	¹⁷⁶ Tm(1.9 m)	189.57(44.5), 1069.3(34), 381.8(21.8)
1088.3 2	0.032 3	²⁴⁰ Np(7.22 m)	554.60(20.9), 597.40(11.7), 1496.9(1.33)
1088.4 7	0.058 11	¹¹⁵ Ag(20.0 m)	229.08(18), 212.80(4.4), 472.70(4.0)
1088.40 30	0.80 13	¹¹⁵ Te(5.8 m)	723.569(30), 1380.58(23.0), 1326.83(22.7)
1088.4 1	8.9 6	¹²⁸ La(5.0 m)	284.00(87), 479.24(54), 643.65(14.7)
1088.4 1	0.015 3	¹⁴¹ Pm(20.90 m)	1223.26(4.74), 886.22(2.44), 193.68(1.61)
• 1088.46 6	0.198 21	¹⁸² Re(64.0 h)	229.3220(26), 67.75001(22.2), 1121.3007(22.0)
1088.52 3	0.0057 3	¹⁴⁵ Pr(5.984 h)	748.278(0.5250), 675.795(0.514), 72.500(0.261)
1088.6 1	0.418 22	¹³⁷ Pr(1.28 h)	836.7(1.8), 433.9(1.28), 514.0(1.08)
1088.6 5	0.046 12	¹⁶¹ Er(3.21 h)	826.6(3.0), 211.15(12.2), 592.6(3.7)
• 1088.6 4	0.0014 4	¹⁷¹ Lu(8.24 d)	739.78(47.8), 19.394(13.7), 667.404(11.04)
• 1088.64 10	0.6	¹²³ Sn(129.2 d)	1030.23(0.0310), 1021.00(0.00193), 160.33(0.00191)
1088.70 10	0.0031 11	¹³⁹ Pr(4.41 h)	1347.33(0.47), 1630.67(0.343), 255.11(0.236)
1088.7 2	0.11 3	¹⁷³ Ta(3.14 h)	172.2(18), 69.70(5.9), 90.3(5.0)
• 1088.80 20	0.30 3	⁹⁹ Rh(16.1 d)	528.24(33), 353.05(30.0), 89.65(29.0)
1088.8 3	3.7 9	¹²² Cs(4.5 m)	331.1(94), 497.1(79), 638.5(63)
1088.80 9	0.86 6	²⁰¹ Pb(9.33 h)	331.19(79), 361.27(9.9), 945.96(7.4)
1088.86 8		¹⁶⁸ Lu(5.5 m)	1483.65(†100), 228.58(†97), 111.8(†68)
1088.86 8		¹⁶⁸ Lu(6.7 m)	198.82(28), 979.22(20), 896.12(15)
1088.9 4	0.58 4	⁹¹ Tc(3.14 m)	2450.90(13.5), 1639.90(9.2), 1605.20(7.77)
1088.90 14	0.22 5	⁹⁵ Ru(1.643 h)	336.43(70.2), 1096.76(21.0), 626.77(17.8)
1088.9 1	0.312 14	¹⁴⁶ Ba(2.22 s)	140.7(20.2), 251.2(19.6), 121.2(14.2)
1089.0 9	1.2 4	⁶⁹ Ni(11.4 s)	1871.1(40.9), 679.7(39.7), 1213.0(39.3)
1089.0 10	0.088 22	¹⁹⁹ Bi(27 m)	560.1(22.0), 424.85(22), 841.7(11)
• 1089.03 24	0.0500 10	⁵⁶ Co(77.27 d)	846.771(100), 1238.282(67.6), 2598.459(17.28)
1089.06 10	0.20	¹⁷⁶ Ta(8.09 h)	1159.28(25), 88.34(12), 1224.93(6)
1089.08 15	†3.4 4	¹⁴⁴ Cs(1.01 s)	199.326(†100.0), 639.00(†21.2), 758.96(†20.6)
1089.1 5	0.39	¹⁴⁰ Sm(14.82 m)	225.5(>10), 225.4(10), 140.0(5.0)
1089.1 4	0.35 4	¹⁶¹ Tm(33 m)	45.54(5.00), 1648.1(9.50), 84.40(9.4)
• 1089.15 10	4.59 16	¹²⁵ Sn(9.64 d)	1067.10(10), 822.48(4.28), 915.55(4.13)
• 1089.154 180.205 5		¹⁴⁸ Eu(54.5 d)	550.284(98.5), 629.987(71.9), 611.293(20.5)
1089.2 3	3.2 4	⁷² Br(78.6 s)	862.03(70), 1316.70(17.3), 454.70(13.1)
1089.2 3	0.29 5	¹⁸¹ Au(11.4 s)	198.60(4.4), 2022.4(4.2), 79.40(4.2)
1089.4 2	17.1 9	⁹⁴ Rb(2.702 s)	1309.1(87), 836.9(87.10), 1577.5(31.8)
1089.4 2	0.14	⁹⁵ Rb(377.5 ms)	836.9(2.9), 1309.1(0.12), 845(0.12)
1089.4 4	0.68 14	¹⁰³ Cd(7.3 m)	1461.81(12), 1448.70(5.55), 1079.90(5.44)
1089.411 28†3.19 7		¹⁴⁸ Tb(60 m)	784.430(†119.0), 489.049(†28.0), 1079.025(†16.2)
1089.43 6	0.028 5	¹⁸⁹ Pt(10.87 h)	721.41(9.3), 94.33(7.6), 568.84(7.1)
1089.5 4	3.7 4	¹³⁰ Sb(39.5 m)	793.53(100), 839.49(100), 331.05(78)
1089.53 10	6.0 4	¹²⁸ In(0.84 s)	1168.80(40), 935.20(6.5), 2104.07(5.3)
1089.6 3	0.40 20	¹¹⁸ Cs(14 s)	337.4(100), 472.8(37.4), 586.6(15.4)
1089.6 5	0.14 5	¹⁴¹ Xe(1.73 s)	909.23(24.0), 118.705(16.1), 105.937(9.8)
1089.7 5	†1.3 4	¹⁴² Xe(1.22 s)	571.83(†100), 657.05(†79), 538.24(†77)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
• 1089.700	151.710 21	¹⁵² Eu(13.542 y)	344.281(26.58), 778.91(12.96), 411.115(2.231)
1089.700	15†23.7 17	¹⁵² Tb(17.5 h)	344.281(†1500), 586.294(†223), 271.135(†203)
1089.700	150.70 5	¹⁵² Tb(4.2 m)	344.281(20.8), 411.115(18.8), 471.9(12.2)
• 1089.7 3	0.00108 20	¹⁹² Ir(73.831 d)	316.50791(82.81), 468.07152(47.83), 308.45692(30.00)
1089.7 3	0.035 4	¹⁹² Au(4.94 h)	316.50791(58.0), 295.95827(22.3), 2236.89(5.6)
1089.8 10	0.12 8	¹⁴⁰ Xe(13.60 s)	805.52(20), 1413.66(12.2), 1315.05(8.2)
1089.8	>2.8	¹⁵⁵ Dy(9.9 h)	226.918(68.4), 184.564(3.37), 1090.0(>2.8)
1089.85 5	3.2 3	¹²⁴ In(3.17 s)	1131.64(68), 3214.15(21.5), 997.79(21.1)
1089.864 350.0653 22		¹²⁵ Xe(16.9 h)	188.418(54), 243.378(30.1), 54.968(6.81)
1089.88 10	0.00168 27	¹⁴⁵ Pr(5.984 h)	748.278(0.5250), 675.795(0.514), 72.500(0.261)
1089.9 4	0.059 11	⁸⁵ Y(4.86 h)	231.67(22.8), 2123.8(5.0), 767.40(3.6)
1089.9 3	15000 4	¹¹⁹ In(18.0 m)	1065.55(†80000), 1249.71(†44000), 1163.85(†32000)
1089.9 7	0.14	¹⁴² La(91.1 m)	641.285(47), 2397.8(13.3), 2542.7(10.00)
1089.9 2	1.16 9	¹⁸⁰ Lu(5.7 m)	407.94(43.0), 1199.7(24.3), 1106.00(22.7)
1089.986 200.106 5		¹⁸³ Os(13.0 h)	381.768(89.6), 114.463(20.63), 167.844(8.81)
1090 1	0.42 4	¹³⁷ Pm(2.4 m)	177.5(40.29), 108.6(35), 233.6(29.57)
1090.0 3	1.3 4	¹⁵² Ho(49.5 s)	647.2(92), 613.8(88.4), 683.3(88)
1090.0	>2.8	¹⁵⁵ Dy(9.9 h)	226.918(68.4), 184.564(3.37), 1089.8(>2.8)
1090		¹⁹⁰ Ir(3.25 h)	616.08(93.10), 502.53(92.31), 361.136(89.57)
• 1090.03 11	0.023 5	¹⁵³ Tb(2.34 d)	212.038(31.0), 170.504(6.8), 109.758(6.4)
1090.1 4	0.16 5	¹⁷⁷ W(135 m)	115.65(50), 426.98(13.2), 1036.4(10.3)
1090.13 16	1.85 20	¹⁸⁴ Au(53.0 s)	162.97(50), 272.98(40), 362.47(17.5)
1090.20 10	0.0116 23	⁸¹ Rb(4.576 h)	190.38(64.0), 446.15(23.2), 510.31(5.3)
1090.2 3	†124 29	¹⁵⁷ Ho(12.6 m)	279.97(†47600), 341.16(†37000), 193.41(†15200)
1090.2 2	†0.55 9	¹⁶⁰ Ho(5.02 h)	728.18(†100), 879.383(†65.9), 962.317(†59.1)
1090.2		²³⁸ Pa(2.3 m)	1015.3(†<100), 1014.6(†<100), 635.18(†88)
1090.22	0.140 7	²⁴ Al(2.053 s)	1368.633(96.0), 7069.50(43.0), 2754.028(41.2)
1090.28 8	4.4 3	¹⁶⁵ Yb(9.9 m)	80.11(49), 68.86(9.1), 118.06(2.39)
1090.3 3	0.0116 23	⁷⁹ Rb(22.9 m)	688.1(23), 182.77(19.2), 143.41(13.9)
1090.3 10	0.65 25	¹⁹⁸ Tl(5.3 h)	411.8044(82), 675.8874(11), 636.4(10.1)
1090.39 6	0.0197 22	¹⁸⁷ Ir(10.5 h)	912.95(4.79), 427.12(4.12), 400.89(3.94)
• 1090.49 1	0.0156 16	⁷¹ As(65.28 h)	174.954(82.00), 1095.490(4.08), 499.876(3.624)
1090.5 2	0.11 6	¹³³ Te(55.4 m)	912.671(55.28), 647.51(19.4), 863.955(15.6)
1090.5 5	0.0026 7	²¹¹ Pb(36.1 m)	404.853(3.78), 832.01(3.52), 427.088(1.76)
1090.5 2	0.07 3	²⁴⁰ Np(61.9 m)	566.34(25.3), 973.9(23.8), 600.57(18.4)
• 1090.5 2	0.0031 6	²⁴⁰ Am(50.8 h)	987.76(73.2), 888.80(25.1), 98.860(1.5)
1090.53 12	0.062 14	⁸⁸ Kr(2.84 h)	2392.11(34.6), 196.301(25.98), 2195.842(13.18)
1090.54 9	0.09	¹⁶⁵ Yb(9.9 m)	80.11(49), 68.86(9.1), 1090.28(4.4)
1090.7 7	6.9 7	¹¹⁷ Te(62 m)	719.7(65), 1716.4(15.9), 2300.0(11.2)
1090.7 2	0.71 5	¹⁴³ Gd(39 s)	258.81(75), 204.77(19.4), 463.7(9.9)
1090.7	74.8	¹⁴⁹ Ho(21.1 s)	1073.2(6.37), 1583.6(4.48), 1736.8(3.80)
1090.70 6	0.0214 11	¹⁶⁶ Tm(7.70 h)	778.817(18.9), 2052.36(17.2), 184.410(16.1)
1090.75 17	0.157 16	⁸¹ Sr(22.3 m)	153.54(33.8), 147.76(30.1), 443.34(17.5)
1090.8 4	0.066 20	⁹⁹ Nb(2.6 m)	97.785(7), 253.50(3.64), 2641.3(3.64)
• 1090.8 2	0.198 10	¹⁴⁶ Eu(4.59 d)	747.2(98), 633.03(43), 634.07(37)
1090.94 13	0.076 11	¹⁷⁶ Ta(8.09 h)	1159.28(25), 88.34(12), 1224.93(6)
1090.95 7	19.2 11	²⁰³ Po(36.7 m)	908.64(55), 893.49(18.7), 214.78(14.3)
1090.97 10	0.0081 8	¹³⁹ Ba(83.06 m)	165.864(0.23), 1420.5(0.26), 1254.7(0.026)
1091 1	56 3	⁹⁷ Y(1.17 s)	1103.0(92.6), 161.4(71.8), 970.0(39.9)
1091.00 30	0.028 9	¹⁰⁵ Cd(55.5 m)	961.84(4.69), 346.870(4.20), 1302.459(3.98)
1091.01 4	0.33 3	¹⁶³ Tm(1.810 h)	104.320(18.6), 69.229(11.6), 241.305(10.9)
1091.04 9	0.079 3	¹⁵¹ Tb(17.609 h)	287.357(28.3), 251.863(26.3), 108.088(24.3)
1091.058	2.42 5	³⁹ Cl(55.6 m)	1267.185(54), 250.332(46.3), 1517.508(39.2)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
1091.2 8	0.09	¹⁴² La(91.1 m)	641.285(47), 2397.8(13.3), 2542.7(10.00)
1091.2 3	0.18 7	¹⁵⁰ Tb(3.48 h)	638.05(72), 496.3(14.8), 792.5(4.39)
1091.3 5	†42 4	¹⁰² Y(0.36 s)	151.73(†100), 326.64(†53), 579.4(†35)
1091.3 4	0.042 25	¹⁴³ Ba(14.33 s)	211.475(25), 798.79(15.6), 980.45(11.55)
1091.3 9	0.18 4	¹⁷⁵ Ta(10.5 h)	207.4(14.0), 348.5(12.0), 266.9(10.8)
1091.3 10	1.2 3	¹⁹¹ Hg(50.8 m)	252.5(57), 420.1(18.6), 578.6(17.6)
• 1091.331 170.149 6		¹⁹⁶ Au(6.183 d)	355.684(87), 332.983(22.9), 521.175(0.389)
1091.349 120.49 14		⁹⁶ Nb(23.35 h)	778.224(96.45), 568.80(58.0), 459.88(26.62)
• 1091.349 121.10 8		⁹⁶ Tc(4.28 d)	778.224(100), 849.929(98), 812.581(82)
1091.349 120.060 5		⁹⁶ Tc(51.5 m)	778.224(1.9), 1200.231(1.08), 480.705(0.311)
1091.4 2	†3.0 10	¹²⁹ Sb(17.7 m)	759.8(†100.0), 657.78(†92), 433.76(†73)
1091.4 7	>0.0014	¹³⁹ Pr(4.41 h)	1347.33(0.47), 1630.67(0.343), 255.11(0.236)
1091.5 3	0.50	¹⁸⁶ Ta(10.5 m)	197.93(50), 214.87(42.3), 510.82(37.5)
1091.5	†>0.05	¹⁹⁶ Ir(1.40 h)	393.346(†105.2), 521.175(†104), 447.1(†102.1)
1091.5 7	0.62 12	²⁰¹ Bi(108 m)	629.1(24.0), 936.2(11.3), 1014.1(10.7)
1091.51 8	0.034 6	¹¹⁸ In(8.5 s)	1229.68(1.4), 1050.69(1.37), 253.68(1.30)
1091.51 8	3.6 3	¹¹⁸ Sb(5.00 h)	1229.68(100), 253.68(99), 1050.69(97)
1091.61 14	0.34 3	⁹¹ Kr(8.57 s)	108.788(43.5), 506.592(19.1), 612.87(7.7)
1091.66 5	4.65 19	⁷⁹ Ga(2.847 s)	464.79(24.2), 516.41(21.5), 1187.28(12.8)
1091.67 3	7.75 20	¹²² In(10.3 s)	1140.55(98), 1001.58(50.7), 1190.58(20.5)
1091.7 2	0.47 8	¹³³ Ce(4.9 h)	477.22(39), 510.36(20.7), 58.39(19.2)
1091.7 2	0.74 8	¹³³ Ce(4.9 h)	477.22(39), 510.36(20.7), 58.39(19.2)
1091.7 4	0.007 3	¹⁹⁵ Hg(9.9 h)	779.80(7), 61.46(6.2), 585.13(1.99)
1091.72 7	0.119 24	²⁰⁴ Bi(11.22 h)	899.15(98), 374.72(82), 984.02(59)
1091.8	†25	¹⁰¹ Rb(32 ms)	271.2(†100), 251.6(†31), 1362.9(†14)
1091.8 3	0.054 13	¹⁵³ Dy(6.4 h)	80.723(11.10), 213.754(10.90), 99.659(10.51)
1091.8 5	0.54 13	¹⁵³ Ho(2.0 m)	295.8(67), 637.0(5.36), 688.5(3.7)
1091.8 3	0.202 21	²⁰⁵ At(26.2 m)	719.30(31), 669.41(8.6), 628.88(5.6)
1091.81 14	0.19 3	¹⁸³ Au(42.0 s)	161.18(9.4), 214.13(5.9), 313.08(5.0)
1091.90 5	†100 3	⁸² Ge(4.60 s)	843.24(†9.3), 248.84(†4.0), 951.8(†1.7)
1091.9 6	†0.8 4	¹³⁸ Pm(3.24 m)	520.9(†100), 729.0(†37.8), 493.1(†21.6)
1091.9 2	2.59 17	¹⁴¹ Sm(10.2 m)	403.8(43), 438.8(37.7), 1292.6(6.8)
1091.91 8	0.00101 8	¹⁶⁵ Dy(2.334 h)	94.700(3.58), 361.68(0.84), 633.415(0.568)
1092.0 10	0.17 5	¹¹⁵ Ag(20.0 m)	229.08(18), 212.80(4.4), 472.70(4.0)
1092.0 2	0.034 7	¹⁵¹ Nd(12.44 m)	116.80(43.4), 255.68(16.4), 1180.89(14.8)
1092.08 38	0.19 5	¹⁴¹ Xe(1.73 s)	909.23(24.0), 118.705(16.1), 105.937(9.8)
1092.1 3	0.56 6	⁹⁷ Rh(30.7 m)	421.55(75), 840.13(12.0), 878.80(9.0)
1092.1 5	1.01 10	¹⁴⁴ La(40.8 s)	397.440(94.3), 541.20(39.2), 844.8(22.3)
1092.1 6	0.17	²⁰³ Bi(11.76 h)	820.3(30), 825.2(14.6), 896.9(13)
1092.2 6	0.54 15	¹⁰⁹ Sn(18.0 m)	1099.4(30), 649.90(28.0), 1321.3(11.9)
1092.2 5	4.44 7	¹³⁷ Pm(2.4 m)	177.5(40.29), 108.6(35), 233.6(29.57)
1092.23 12	0.0481 25	¹³⁹ Cs(9.27 m)	1283.23(8.3), 627.24(1.78), 1420.66(0.91)
1092.3 2	18.5 9	¹³⁶ Pr(13.1 m)	552.16(76), 539.75(52), 461.0(7.7)
1092.3 3	0.0197 17	¹⁶² Tb(7.60 m)	260.070(37.2), 807.53(42.8), 888.20(38.7)
1092.3 4	0.112 14	¹⁶⁷ Lu(51.5 m)	29.66(14.4), 239.22(8.6), 213.19(3.6)
1092.4 6	0.063 19	⁸³ Y(7.08 m)	35.50(0.44), 882.1(6.30), 489.90(5.53)
1092.5 6	0.14 4	¹⁶² Tm(21.70 m)	102.00(17.5), 798.68(8.4), 227.52(7)
1092.5 10	<0.007	²³³ Th(22.3 m)	86.477(2.7), 29.374(2.5), 459.222(1.4)
1092.61 17	†1.9 4	¹⁸⁹ Hg(7.6 m)	320.99(†100), 78.21(†63), 565.42(†48)
1092.68 13	0.69 4	⁸⁶ Y(14.74 h)	1076.64(83), 627.72(32.6), 1153.01(30.5)
1092.7 4	4.4 18	¹⁰⁸ Rh(6.0 m)	433.937(88), 581.1(60), 947.27(49)
1092.7 5	0.22 6	¹²¹ Ag(0.78 s)	314.55(32.1), 353.43(19.9), 500.61(9.3)
1092.7 4	0.12 6	¹⁸⁵ Au(4.25 m)	310.6(13), 243.1(6.6), 77.7(6)
1092.8	0.24 3	⁴⁰ Cl(1.35 m)	1460.830(79), 2839.8(30.4), 2621.5(15.4)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
1092.8 4	0.34 3	¹²¹ In(23.1 s)	925.57(87), 261.96(7.9), 657.32(7.1)
1092.8 4	0.045 6	²⁰⁹ At(5.41 h)	545.0(91), 781.9(83.5), 790.2(63.5)
1092.8 5	1.22 7	²²⁸ Fr(39 s)	473.7(10.2), 474.0(7.6), 410.40(6.3)
1092.82 15	0.199 21	¹⁹⁵ Tl(1.16 h)	563.52(10.5), 884.47(10.0), 1363.88(8.4)
1092.82 11	3.3 3	¹⁹⁷ Pb(8 m)	385.85(50), 761.14(13.3), 375.48(12.8)
1092.9 1	0.45 5	¹⁰⁴ Tc(18.3 m)	358.0(89), 530.5(15.6), 535.1(14.7)
1092.9 9	†1.4 5	¹⁹¹ Tl(5.22 m)	452.6(†100), 470.1(†98), 391.6(†96)
1092.9	†47	²⁵⁶ Es(7.6 h)	861.8(†100), 231.1(†61), 172.6(†49)
1093.0 10	0.27 8	⁸³ Se(22.3 m)	356.687(70), 510.17(43), 224.8(32.7)
1093 1	0.039 19	¹²⁵ Sn(9.52 m)	332.10(97.2), 1404.0(0.70), 589.6(0.20)
1093.0 3	0.18 3	¹⁸³ Au(42.0 s)	161.18(9.4), 214.13(5.9), 313.08(5.0)
1093.0 4	†0.9 3	¹⁸⁵ Pt(33.0 m)	229.60(†100), 135.3(†80), 197.4(†74)
1093.1 1	0.98 8	⁷⁷ Zn(2.08 s)	189.49(28.1), 473.94(19.7), 1832.0(12.4)
1093.10 10	†5.5 13	⁸³ Ge(1.85 s)	306.51(†100.0), 1193.77(†20.5), 1525.50(†13.6)
1093.1 5	0.31 7	⁹⁸ Rb(114 ms)	144.224(24.5), 1693.3(5.9), 2171.7(5.7)
1093.13 7	5.5 6	¹⁰⁸ In(58.0 m)	875.46(100), 632.96(100), 242.84(41)
1093.14 9	0.098 8	⁹⁰ Nb(14.60 h)	1129.224(92.7), 2318.968(82.03), 141.178(66.8)
1093.2 3	5.0 5	¹³² Sb(2.79 m)	973.9(99), 696.8(86), 989.6(14.9)
1093.2	0.09 5	¹⁴¹ Ba(18.27 m)	190.328(46.0), 304.194(25.4), 276.948(23.4)
1093.2 3	0.031 6	²⁴⁹ Es(102.2 m)	379.5(40.4), 813.2(9.2), 375.1(3.3)
1093.3 7	3.9 8	¹²⁷ Sn(2.10 h)	1114.3(39), 1095.6(20), 823.1(10.9)
1093.3 2	†15 2	¹⁹¹ Pb(2.18 m)	387.1(†100), 712.2(†46), 613.5(†40)
• 1093.31 10	0.070 7	²⁰⁶ Bi(6.243 d)	803.10(99), 881.01(66.2), 516.18(40.7)
1093.4 3	2.79 24	¹²³ Xe(2.08 h)	148.9(49), 178.1(14.9), 330.2(8.6)
1093.42 46	†7 3	¹⁶⁴ Tm(2.0 m)	91.40(†1500), 1154.66(†366), 768.91(†279)
1093.5 8	0.075 14	¹⁵⁰ Pm(2.68 h)	333.971(68), 1324.51(17.5), 1165.739(15.8)
1093.5 1	1.20 10	²⁴² Np(2.2 m)	735.93(5), 780.44(2.76), 1473.1(2.34)
1093.52 9	0.0063 4	¹⁶¹ Gd(3.66 m)	360.94(0.59), 314.92(22.7), 102.315(13.9)
1093.6 2	2.63 11	¹⁰¹ Ag(11.1 m)	261.0(53), 588.0(10.0), 667.3(9.8)
1093.6 3	14.1 14	¹¹⁸ I(8.5 m)	605.71(99), 600.71(92), 614.42(65)
1093.6 3	0.070 8	¹⁴³ La(14.2 m)	620.3(2.34), 643.75(1.55), 621.4(1.52)
1093.6 7	0.35	¹⁵⁴ Tb(22.7 h)	247.925(79), 346.643(69), 1419.81(46)
• 1093.657 136.0 3		¹⁷² Tm(63.6 h)	78.7435(6.5), 1387.093(5.6), 1529.72(5.1)
• 1093.657 1362.5 13		¹⁷² Lu(6.70 d)	900.724(29.8), 181.528(20.6), 810.064(16.63)
1093.70 10	0.036 3	¹⁵⁵ Dy(9.9 h)	226.918(68.4), 184.564(3.37), 1089.8(>2.8)
1093.7 3	0.125 21	¹⁸³ Ir(58 m)	392.52(10.4), 228.70(6.9), 87.67(5.6)
1093.7 7	0.014 5	²⁴⁵ Pu(10.5 h)	327.428(25.4), 560.13(5.4), 308.222(4.9)
1093.778 160.00541 16		¹⁴⁵ Pr(5.984 h)	748.278(0.5250), 675.795(0.514), 72.500(0.261)
1093.8 4	0.15 4	²³⁰ Ac(122 s)	454.95(8), 508.20(5.15), 1243.9(3.50)
1093.87 9	0.410 25	¹³⁸ Xe(14.08 m)	258.411(31.5), 434.562(20.3), 1768.26(16.7)
1093.9 5	0.12	¹⁴⁰ Sm(14.82 m)	225.5(>10), 225.4(10), 140.0(5.0)
1093.9 2	0.40 3	²⁰⁸ Tl(3.053 m)	2614.533(99), 583.191(84.5), 510.77(22.6)
1094.00 7	1.74 10	⁹³ Sr(7.423 m)	590.238(67), 875.73(24.1), 888.13(21.8)
1094	0.0033 10	¹⁰⁵ Ru(4.44 h)	724.21(47), 469.37(17.5), 676.36(15.7)
1094.0 3	0.32 5	¹⁸¹ Au(11.4 s)	198.60(4.4), 2022.4(4.2), 79.40(4.2)
1094.0 7	0.099 23	¹⁹² Au(4.94 h)	316.50791(58.0), 295.95827(22.3), 2236.89(5.6)
1094.1 1	2.81 12	¹⁴² Ba(10.6 m)	255.300(20.5), 1204.3(14.23), 895.2(13.9)
1094.2 1	0.23 2	¹⁰⁷ Tc(21.2 s)	102.70(21.0), 177.00(9.2), 106.31(7.6)
1094.20 6	0.090 4	¹²¹ I(2.12 h)	212.189(84), 532.08(6.07), 598.74(1.47)
1094.2 1	0.029 8	¹²¹ I(2.12 h)	212.189(84), 532.08(6.07), 598.74(1.47)
1094.2 5	0.21 5	¹²¹ Xe(40.1 m)	252.7(13), 132.8(10.9), 445.2(7.7)
1094.2	0.14 5	¹⁴¹ Ba(18.27 m)	190.328(46.0), 304.194(25.4), 276.948(23.4)
1094.2 2	0.020 3	²⁴⁰ Np(7.22 m)	554.60(20.9), 597.40(11.7), 1496.9(1.33)
• 1094.2 2	0.016 1	²⁴⁰ Am(50.8 h)	987.76(73.2), 888.80(25.1), 98.860(1.5)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
1094.22 15	0.022 14	¹⁸⁴ Ta(8.7 h)	414.03(72), 252.848(43), 920.932(32.0)
1094.29 20	0.028 8	¹³⁰ I(12.36 h)	536.09(99), 668.54(96), 739.48(82)
1094.3 5	0.773 19	¹¹⁸ In(4.45 m)	1229.68(96), 1050.69(81.0), 683.08(54.3)
1094.3 3	0.026 9	¹⁴⁹ Tb(4.118 h)	352.24(29.43), 164.98(26.4), 388.57(18.37)
• 1094.37	0.029	¹⁴⁶ Eu(4.59 d)	747.2(98), 633.03(43), 634.07(37)
1094.4 1	1.10 9	⁷⁵ Zn(10.2 s)	228.67(28.9), 432.29(20.2), 155.94(17.2)
1094.4 3	0.22 4	¹⁵⁰ Tb(3.48 h)	638.05(72), 496.3(14.8), 792.5(4.39)
1094.4	0.08	¹⁸⁵ Ir(14.4 h)	254.4(13.3), 1828.8(10), 60.0(5.7)
1094.5 4	†4.4 13	¹⁹³ Hg(3.80 h)	861.11(†100), 1118.84(†64), 789.21(†36)
1094.5		²³⁸ Pa(2.3 m)	1015.3(†<100), 1014.6(†<100), 635.18(†88)
1094.5	†5	²³⁸ Pa(2.3 m)	1015.3(†<100), 1014.6(†<100), 635.18(†88)
1094.60 20	1.05 6	⁸⁸ Nb(7.8 m)	1057.01(89.3), 1082.53(53.9), 399.41(45.7)
1094.6 6	0.24 10	¹⁶⁷ Dy(6.20 m)	569.7(48), 259.33(27.9), 310.26(25.0)
1094.60 11	0.23 3	²⁰⁸ At(1.63 h)	686.527(98), 660.040(89), 177.595(48.6)
1094.7 3	3.7 4	¹²⁷ In(1.09 s)	1597.7(49), 646.1(6.2), 805.1(5.6)
1094.8 3	0.05 3	⁶⁶ Ge(2.26 h)	43.89(28.7), 381.85(28), 272.97(10.4)
1094.8 2	1.20 10	¹⁵⁹ Eu(18.1 m)	67.8(19), 78.6(9.1), 95.7(7.0)
1094.8 3	1.98 20	²³⁰ Fr(19.1 s)	711.0(13.6), 129.1(11.0), 728.4(7.3)
1094.89 12	0.68 10	²⁰⁶ At(30.0 m)	700.66(98), 477.10(86), 395.54(48)
1094.9 2	†0.95 14	¹⁶⁰ Ho(5.02 h)	728.18(†100), 879.383(†65.9), 962.317(†59.1)
1094.97 20	0.52 7	¹⁰¹ Sr(118 ms)	128.34(18.0), 1124.82(10.9), 510.73(8.5)
1095.0 3	0.074 25	¹²⁹ La(11.6 m)	278.6(25), 110.5(16.9), 457.0(8.0)
1095.0 3	0.30 4	¹⁴⁹ Dy(4.20 m)	100.8(15.2), 789.4(11.8), 1776.3(11.1)
1095.0 2	†0.51 10	¹⁵⁸ Ho(11.3 m)	218.21(†100.0), 98.91(†70), 945.7(†37)
1095.0 5	†1.0 3	¹⁸⁰ Au(8.1 s)	153.3(†100), 524.3(†29), 257.6(†26)
1095.04 25	0.111 20	¹⁶³ Yb(11.05 m)	860.28(10.1), 63.62(6.5), 123.21(1.98)
1095.1 6	0.24 7	⁹⁹ Pd(21.4 m)	136.00(73), 263.60(15.2), 673.38(6.9)
1095.1 3	0.010 4	¹¹⁹ I(19.1 m)	257.52(87), 635.86(2.69), 320.53(2.17)
1095.13 15	0.165 22	²⁰⁷ At(1.80 h)	814.41(44.5), 588.33(19.2), 300.654(12.8)
1095.16 15	0.093 10	⁸⁷ Br(55.60 s)	1419.71(22.0), 1476.04(7.9), 1577.60(6.0)
1095.19 2	1.4 5	¹¹⁸ In(4.45 m)	1229.68(96), 1050.69(81.0), 683.08(54.3)
1095.26 5	†43.6 6	⁷¹ Se(4.74 m)	147.50(†211), 830.33(†43.2), 1242.59(†31.9)
1095.3 3	0.074 20	⁹⁵ Rb(377.5 ms)	352.02(49), 204.02(15.1), 680.7(14.8)
1095.3 10	†1.9 7	¹⁹¹ Tl(5.22 m)	452.6(†100), 470.1(†98), 391.6(†96)
1095.36 11	0.54 17	¹⁰⁵ In(5.07 m)	131.37(41), 260.21(15.7), 604.11(9.2)
1095.43 8	0.21 3	²⁰⁴ Bi(11.22 h)	899.15(98), 374.72(82), 984.02(59)
• 1095.490 104.08 6		⁷¹ As(65.28 h)	174.954(82.00), 499.876(3.624), 326.785(3.034)
1095.5 3	2.13 21	⁸¹ Ge(7.6 s)	335.98(58.9), 792.94(34), 1495.53(19.9)
1095.5 3	2.25 23	⁸¹ Ge(7.6 s)	93.10(26), 335.98(12.8), 197.30(12.3)
1095.5 1	1.28 4	¹⁴⁶ Ba(2.22 s)	140.7(20.2), 251.2(19.6), 121.2(14.2)
1095.5 3	0.50 11	¹⁸⁶ Ir(2.0 h)	137.155(27), 767.508(21.2), 630.354(18.0)
1095.52 15	0.61 6	⁹⁹ Sr(0.269 s)	125.118(16.1), 536.12(14.0), 1198.12(9.2)
1095.6 4	20 4	¹²⁷ Sn(2.10 h)	1114.3(39), 823.1(10.9), 805.9(8.4)
1095.6		¹²⁷ Sn(4.13 m)	490.9(90), 1348.0(4.8), 1564.0(4.0)
1095.6 5	0.011 3	¹⁵¹ Tb(17.609 h)	287.357(28.3), 251.863(26.3), 108.088(24.3)
1095.677 220.133 11		²²⁸ Ac(6.15 h)	911.205(26.6), 968.971(16.2), 338.322(11.3)
1095.677 220.031 13		²²⁸ Pa(22 h)	911.205(4.19), 463.005(1.250), 964.770(4.25)
1095.7 5	0.30 6	⁶³ Co(27.4 s)	87.13(48.7), 981.7(2.11), 155.6(1.60)
1095.7 4	0.014 9	¹⁰⁵ Cd(55.5 m)	961.84(4.69), 346.870(4.20), 1302.459(3.98)
1095.7 3	3.5 4	¹²⁹ In(0.61 s)	2118.0(45), 1865.0(32), 769.3(9.1)
1095.7 11	0.32 8	¹⁷⁵ Ta(10.5 h)	207.4(14.0), 348.5(12.0), 266.9(10.8)
• 1095.75 10	2.24 3	¹¹⁹ Te(4.70 d)	153.59(66), 1212.73(66), 270.53(28.0)
1095.8 4	0.48 18	¹⁰¹ Zr(2.1 s)	119.3(10.8), 205.6(6.0), 912.2(3.48)
1095.8 5		¹⁹² Au(4.94 h)	316.50791(58.0), 295.95827(22.3), 2236.89(5.6)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
1095.84 6	4.4	¹⁵⁴ Pm(1.73 m)	2057.76(17.1), 1393.9(14.4), 81.99(12.6)
1095.84 6	0.41	¹⁵⁴ Pm(2.68 m)	184.810(32), 81.99(15.4), 546.66(14.5)
1095.86 4	$>8.0 \times 10^{-5}$	¹⁸⁷ W(23.72 h)	685.774(27.3), 479.531(21.8), 72.001(11.14)
1095.95 4	0.0012 6	¹⁷³ Hf(23.6 h)	123.672(83), 296.974(33.9), 139.634(12.7)
1096.0 3	0.34 5	¹⁸³ Ir(58 m)	392.52(10.4), 228.70(6.9), 87.67(5.6)
1096.0 5	0.77 11	²⁰³ Po(36.7 m)	908.64(55), 1090.95(19.2), 893.49(18.7)
1096.0 2	0.14 3	²⁰⁹ At(5.41 h)	545.0(91), 781.9(83.5), 790.2(63.5)
1096.02 15	0.87 4	⁷⁸ Rb(5.74 m)	454.97(81), 664.44(38.3), 1109.72(13.12)
1096.02 22	0.44 4	¹⁶² Tm(21.70 m)	102.00(17.5), 798.68(8.4), 227.52(7)
1096.04 15	6.1 3	¹²¹ Cd(13.5 s)	324.976(49.5), 1040.26(16.8), 349.937(12.9)
1096.1 3	0.126 12	¹⁴⁷ Pr(13.4 m)	77.9921(15), 314.675(13.2), 641.380(10.0)
1096.1 3	1.76 6	¹⁵¹ Dy(17.9 m)	386.10(19.4), 49.46(18.0), 546.31(14.3)
1096.1 5	$\dagger 0.15$ 3	¹⁸⁴ Ir(3.09 h)	263.97($\dagger 100$), 119.80($\dagger 45$), 390.38($\dagger 38$)
1096.1 2	$\dagger 31$ 3	¹⁹⁵ Bi(183 s)	807.6($\dagger 100$), 831.7($\dagger 100$), 776.2($\dagger 95$)
1096.15 24	0.032 11	¹³² La(4.8 h)	464.55(76), 567.14(15.7), 1909.91(9.0)
1096.17 6	0.00093 19	¹⁵⁵ Sm(22.3 m)	104.3346(74.6), 245.771(3.7), 141.4428(1.98)
1096.2 5	0.51 14	¹⁵⁷ Tm(3.63 m)	455.00(9.3), 385.5(8.8), 348.40(8.4)
1096.22 3	43.0 13	¹³³ Sb(2.5 m)	817.8(18.5), 2755(12.5), 836.88(11.1)
1096.3		¹⁰⁶ Sn(115 s)	386.8($\dagger 100$), 477.5($\dagger 62$), 253.30($\dagger 57$)
1096.30 5	0.48 9	¹⁰⁹ Ru(34.5 s)	206.29(22.0), 225.98(19.6), 1929.05(13.7)
1096.3 5	0.13 4	¹²¹ Xe(40.1 m)	252.7(13), 132.8(10.9), 445.2(7.7)
• 1096.4 4	0.03 3	¹⁴⁷ Gd(38.06 h)	229.32(63), 396.00(34.3), 929.01(20.2)
• 1096.47 7	0.0135 14	¹⁶⁵ Tm(30.06 h)	242.917(35.5), 47.155(16.9), 297.369(12.71)
1096.48 4	0.552 20	¹³⁰ I(12.36 h)	536.09(99), 668.54(96), 739.48(82)
1096.48 4	0.0025 3	¹³⁰ I(9.0 m)	536.09(16), 586.05(1.07), 1614.10(0.447)
1096.5 5	0.22 10	¹²¹ Ag(0.78 s)	314.55(32.1), 353.43(19.9), 500.61(9.3)
1096.50 20	1.7 4	¹²³ Ag(0.309 s)	263.87(35.9), 409.79(13.2), 591.30(8.2)
1096.5 5	0.8 2	¹³⁰ Sb(39.5 m)	793.53(100), 839.49(100), 331.05(78)
1096.5 4	0.38 8	¹³⁹ Nd(29.7 m)	405.12(7), 1074.2(2.5), 669.0(1.52)
1096.54 6	0.00064 16	¹⁸⁸ Re(16.98 h)	155.032(14.9), 632.99(1.25), 477.99(1.0)
• 1096.54 6	1.46 12	¹⁸⁸ Ir(41.5 h)	155.032(29.7), 2214.62(18.7), 632.99(18)
1096.58 8	0.072 5	⁹⁶ Tc(51.5 m)	778.224(1.9), 1200.231(1.08), 480.705(0.311)
1096.61 5	4.5 3	⁷⁷ Zn(2.08 s)	189.49(28.1), 473.94(19.7), 1832.0(12.4)
1096.62	0.12	²⁰³ Bi(11.76 h)	820.3(30), 825.2(14.6), 896.9(13)
• 1096.67 5	0.00159 14	¹⁴⁹ Gd(9.28 d)	149.735(48.2), 298.634(28.6), 346.651(23.9)
1096.7 5	$\dagger 4$ 2	¹⁰⁰ Y(0.94 s)	212.531($\dagger 100$), 351.960($\dagger 33$), 878.54($\dagger 18$)
1096.71 9	0.400 24	⁹³ Rb(5.84 s)	432.61(17.4), 986.05(6.8), 213.429(6.7)
1096.71 9	$\dagger 86$	⁹⁴ Rb(2.702 s)	432.61($\dagger 9000$), 213.429($\dagger 6000$), 986.05($\dagger 4100$)
1096.76 6	21.0 10	⁹⁵ Ru(1.643 h)	336.43(70.2), 626.77(17.8), 1178.66(5.16)
1096.8 3	0.075 17	¹⁵³ Dy(6.4 h)	80.723(11.10), 213.754(10.90), 99.659(10.51)
1096.8 3	0.119 17	¹⁹¹ Au(3.18 h)	586.45(17), 277.88(7.2), 674.19(6.8)
1096.8	0.37	¹⁹⁹ Po(4.13 m)	1002.19(19), 1034.3(16), 362.01(7)
1096.86 10	0.090 14	¹³⁵ I(6.57 h)	1260.409(28.90), 1131.511(22.74), 1678.027(9.62)
1096.9 2	$\dagger 24$ 5	⁹¹ Ru(7.6 s)	393.7($\dagger 100$), 892.8($\dagger 15$), 204.0($\dagger 6$)
1096.9 4	0.044 8	¹³² I(2.295 h)	667.718(99), 772.60(75.6), 954.55(17.6)
1096.9 1	0.202 13	¹³⁷ Pr(1.28 h)	836.7(1.8), 433.9(1.28), 514.0(1.08)
1096.9 5	0.16	¹⁵⁴ Pm(1.73 m)	2057.76(17.1), 1393.9(14.4), 81.99(12.6)
1096.9 8	0.00106 19	¹⁷¹ Er(7.516 h)	308.31(64.4), 295.901(28.9), 111.621(20.5)
1096.9 8	0.81 4	²²⁸ Fr(39 s)	473.7(10.2), 474.0(7.6), 410.40(6.3)
1096.99 8	0.0026	²³⁹ U(23.45 m)	74.664(48), 43.533(4.14), 662.24(0.18)
1097.0 2	0.014 3	¹¹⁹ I(19.1 m)	257.52(87), 635.86(2.69), 320.53(2.17)
• 1097 1	0.004 3	¹²⁴ Sb(60.20 d)	602.730(97.8), 1690.980(47.3), 722.786(10.76)
1097	0.010	¹⁴⁸ Dy(3.1 m)	620.24(96), 1247.2(1.4), 178.3(0.5)
1097.03 6	0.0185 7	¹⁵⁹ Ho(33.05 m)	121.012(36.2), 131.973(23.6), 309.594(17.2)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
1097.1 2	0.30 13	¹⁴⁶ Ba(2.22 s)	140.7(20.2), 251.2(19.6), 121.2(14.2)
1097.1 10	0.034 14	¹⁵⁰ Pm(2.68 h)	333.971(68), 1324.51(17.5), 1165.739(15.8)
1097.1 1	28.7 14	¹⁵² Pm(7.52 m)	244.6989(78), 121.7824(45), 340.48(31.3)
1097.14 9	0.128 24	⁹³ Kr(1.286 s)	253.42(41.2), 323.89(24.1), 266.83(20.6)
• 1097.18 3	0.124 4	¹⁴⁸ Eu(54.5 d)	550.284(98.5), 629.987(71.9), 611.293(20.5)
1097.2 8	0.038 19	⁸³ Y(7.08 m)	35.50(0.44), 882.1(6.30), 489.90(5.53)
1097.2 2	0.019 9	⁹⁸ Nb(51.3 m)	787.374(93), 722.645(73.8), 1168.830(17.8)
• 1097.20 23	0.023 5	¹⁴⁰ La(1.6781 d)	1596.210(95), 487.021(45.5), 815.772(23.28)
1097.24 10	0.065 11	¹⁷⁶ Ta(8.09 h)	1159.28(25), 88.34(12), 1224.93(6)
1097.25 20	†0.71 19	¹⁸⁹ Hg(7.6 m)	320.99(†100), 78.21(†63), 565.42(†48)
1097.26 9	0.45 5	¹⁷⁴ Ta(1.05 h)	206.50(58), 91.00(16.0), 1205.92(4.9)
1097.3 2	0.028 4	¹¹⁵ Sb(32.1 m)	497.358(98), 489.27(1.3), 1236.52(0.58)
1097.3 2	56.2 11	¹¹⁶ In(54.41 m)	1293.54(84.4), 416.86(28.9), 2112.1(15.5)
1097.3 3	0.31 3	²³⁸ Am(98 m)	962.77(28), 918.69(23.0), 561.11(10.9)
1097.37 7	0.055 5	¹⁸³ Os(13.0 h)	381.768(89.6), 114.463(20.63), 167.844(8.81)
1097.4 7	0.093 23	¹⁹² Au(4.94 h)	316.50791(58.0), 295.95827(22.3), 2236.89(5.6)
1097.41 8	0.086 14	¹⁴¹ Xe(1.73 s)	909.23(24.0), 118.705(16.1), 105.937(9.8)
1097.46 5	0.0571 17	¹⁶⁶ Tm(7.70 h)	778.817(18.9), 2052.36(17.2), 184.410(16.1)
1097.5 2	0.00200 17	¹⁰⁷ Cd(6.50 h)	93.124(1.45), 828.93(0.17), 796.462(0.0665)
1097.5 3	0.35 5	¹¹⁸ I(13.7 m)	605.71(86.0), 545.12(10.9), 600.71(10.2)
1097.5 3	0.57 11	¹¹⁸ I(8.5 m)	605.71(99), 600.71(92), 614.42(65)
1097.5 5	0.69 16	¹²⁶ Ba(100 m)	233.6(19.6), 257.6(7.6), 241.0(6.0)
1097.5 6	†1.2 4	¹³⁸ Pm(3.24 m)	520.9(†100), 729.0(†37.8), 493.1(†21.6)
1097.55 25	0.236 21	²⁰⁹ Rn(28.5 m)	408.32(50.3), 745.78(22.8), 337.45(14.5)
1097.59 11	0.299 17	¹⁴¹ Cs(24.94 s)	48.53(7.90), 561.63(4.7), 1194.02(3.95)
1097.6 1	10.7 18	¹⁴¹ Gd(24.5 s)	351.1(89), 223.9(64), 574.9(51)
1097.6 2	0.14 4	²²⁴ Fr(3.30 m)	215.985(33.1), 131.613(16.3), 836.90(9.8)
1097.7 3	1.92 19	¹¹² Sb(51.4 s)	1257.05(96), 990.70(14.3), 670.0(3.7)
1097.7	0.58 9	¹⁴⁰ Eu(1.51 s)	530.7(29), 1068.0(3.2), 459.9(3.19)
1097.8 2	0.70 6	⁶¹ Fe(5.98 m)	1205.07(44), 1027.42(42.7), 297.90(22.2)
1097.8 5	0.27 5	⁸⁸ Nb(7.8 m)	1057.01(89.3), 1082.53(53.9), 399.41(45.7)
1097.8 5	†53 18	¹⁰⁰ Rh(4.6 m)	539.59(†5900), 687.0(†3500), 1827.2(†1410)
1097.8 2	11.7 19	¹²² Cs(4.5 m)	331.1(94), 497.1(79), 638.5(63)
1097.8 7	0.253 22	¹⁹⁹ Bi(27 m)	560.1(22.0), 424.85(22), 841.7(11)
1097.82 3	6.00 18	⁸⁹ Br(4.40 s)	997.93(4.26), 953.53(4.26), 4166.3(3.8)
1097.82 3	0.91 8	⁹⁰ Br(1.92 s)	411.49(3.88), 962.71(1.25), 997.93(0.33)
1097.9 7	0.017 5	²⁴⁵ Pu(10.5 h)	327.428(25.4), 560.13(5.4), 308.222(4.9)
1097.92 7	0.110 3	¹⁵¹ Tb(17.609 h)	287.357(28.3), 251.863(26.3), 108.088(24.3)
1097.97 13	98.5 23	⁵⁰ Mn(1.75 m)	783.29(100), 1443.28(69), 1282.36(33)
1098.0 6	0.084 16	⁴⁵ K(17.3 m)	174.276(74.4), 1705.6(53), 2353.6(14.12)
• 1098	>1.9×10 ⁻⁵	⁹⁵ Tc(61 d)	204.117(63.25), 582.082(29.96), 835.149(26.63)
1098 1	2.3 8	⁹⁸ Cd(9.2 s)	347.18(78), 1176.1(66.3), 107.28(43.7)
1098.0 5	0.47	¹⁰¹ Cd(1.2 m)	98.0(47), 1722.5(11), 1259.3(8)
1098.0 5	0.38	¹⁰¹ Cd(1.2 m)	98.0(47), 1722.5(11), 1259.3(8)
1098.0 2	0.20 4	¹⁰⁹ Ru(34.5 s)	206.29(22.0), 225.98(19.6), 1929.05(13.7)
1098.0 10	0.007 3	¹¹¹ Pd(23.4 m)	580.00(0.8), 70.44(0.78), 1459.0(0.56)
1098.0 15	1.2	¹²⁴ Ba(11.9 m)	169.3(20), 1216(12), 188.98(10)
1098.0 5	0.5	¹⁴⁰ Sm(14.82 m)	225.5(>10), 225.4(10), 140.0(5.0)
1098.0 3	12 3	¹⁵² Ho(161.8 s)	613.8(73), 613.8(14), 838.0(10)
1098.02 22	0.42 4	¹⁸⁶ Au(10.7 m)	191.56(62), 298.67(25.4), 764.89(10.5)
• 1098.05 10	0.256 8	⁸³ Sr(32.41 h)	762.65(30), 381.53(14.1), 418.37(4.41)
1098.1 5	0.064 24	⁸⁹ Kr(3.15 m)	220.948(20.1), 586.03(16.6), 904.27(7.2)
• 1098.2 2	0.0036 5	⁷⁶ As(26.32 h)	559.101(45), 657.041(6.2), 1216.104(3.42)
1098.2	>0.22	¹⁵⁵ Dy(9.9 h)	226.918(68.4), 184.564(3.37), 1089.8(>2.8)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
1098.2 3	0.244 24	¹⁶¹ Er(3.21 h)	826.6(3.0), 211.15(12.2), 592.6(3.7)
1098.25 2	0.172 7	¹³¹ Te(25.0 m)	149.716(69), 452.323(18.18), 1146.96(4.95)
1098.26 23	$\dagger 2.3 \times 10^3$ 5	¹⁰⁵ Ag(7.23 m)	319.14($\dagger 63000$), 306.25($\dagger 12800$), 442.37($\dagger 5900$)
• 1098.26 7	13.50 15	²⁰⁶ Bi(6.243 d)	803.10(99), 881.01(66.2), 516.18(40.7)
1098.33 23	0.38 4	¹⁰⁵ In(5.07 m)	131.37(41), 260.21(15.7), 604.11(9.2)
1098.36 16	0.00054 9	²⁵⁰ Bk(3.217 h)	989.12(45), 1031.85(35.6), 1028.65(4.91)
1098.37 2	1.5 3	¹¹⁸ In(4.45 m)	1229.68(96), 1050.69(81.0), 683.08(54.3)
1098.37 2	0.10 4	¹¹⁸ In(5.0 s)	1229.68(5.0), 528.83(0.7), 1173.59(0.43)
1098.37 2	0.079 22	¹¹⁸ Sb(3.6 m)	1229.68(2.5), 1267.23(0.511), 528.83(0.472)
1098.4 8	0.29 19	¹²⁸ Sb(10.4 m)	753.82(96.4), 743.22(96), 314.12(89)
1098.4 6	0.46 14	¹⁵⁷ Tm(3.63 m)	455.00(9.3), 385.5(8.8), 348.40(8.4)
1098.5 10	0.12 6	¹¹¹ Pd(5.5 h)	70.44(8.3), 391.25(5.4), 632.80(3.6)
1098.51 5	0.52 5	⁹⁶ Rh(9.90 m)	832.57(100), 685.49(95.7), 631.71(74.5)
1098.51 5	8.9 4	⁹⁶ Rh(1.51 m)	832.57(39), 1692.2(7.0), 685.49(3.6)
1098.51 7	1.83 11	²⁰¹ Pb(9.33 h)	331.19(79), 361.27(9.9), 945.96(7.4)
1098.6 3	39 3	¹¹² Rh(6.8 s)	348.70(87), 560.5(49), 359.7(30)
1098.6 10	0.18 4	¹⁴⁰ Cs(63.7 s)	602.345(71.1), 908.25(11.6), 1200.25(6.39)
• 1098.64 7	0.122 3	⁷¹ As(65.28 h)	174.954(82.00), 1095.490(4.08), 499.876(3.624)
1098.64 4	9	¹¹⁵ Te(6.7 m)	770.40(34.2), 723.569(18), 1071.70(12.9)
1098.64 4	16.3 10	¹¹⁵ Te(5.8 m)	723.569(30), 1380.58(23.0), 1326.83(22.7)
1098.7 6	17.3 10	⁹⁶ Pd(122 s)	124.70(65), 762.3(50.0), 499.7(17.9)
1098.77 11	0.214 16	¹³⁸ Xe(14.08 m)	258.411(31.5), 434.562(20.3), 1768.26(16.7)
1098.8 4	0.27 3	¹⁶¹ Tm(33 m)	45.54(5.00), 1648.1(9.50), 84.40(9.4)
1098.82 12	$\dagger 6.1$ 6	⁷¹ Se(4.74 m)	147.50($\dagger 211$), 1095.26($\dagger 43.6$), 830.33($\dagger 43.2$)
• 1098.9 5	0.012 9	¹⁵³ Tb(2.34 d)	212.038(31.0), 170.504(6.8), 109.758(6.4)
1099.0 3	4.5 4	⁷⁰ As(52.6 m)	1039.20(81), 1114.1(21.8), 668.3(21.8)
1099.06 23	0.57 11	¹⁴¹ Xe(1.73 s)	909.23(24.0), 118.705(16.1), 105.937(9.8)
1099.1 9	0.14 8	¹⁴² Cs(1.70 s)	359.598(27.2), 1326.46(12.92), 966.89(9.0)
• 1099.251 4	56.5 15	⁵⁹ Fe(44.503 d)	1291.596(43.2), 192.349(3.08), 142.652(1.02)
1099.32 7	1.67 6	¹⁰³ Cd(7.3 m)	1461.81(12), 1448.70(5.55), 1079.90(5.44)
1099.38 3	0.52 3	¹⁶³ Tm(1.810 h)	104.320(18.6), 69.229(11.6), 241.305(10.9)
1099.4 3	30	¹⁰⁹ Sn(18.0 m)	649.90(28.0), 1321.3(11.9), 331.1(9.7)
1099.4 5	0.062 6	¹³⁹ Xe(39.68 s)	218.59(56), 296.53(21.7), 174.97(11.3)
1099.48 3	22.3 18	¹²⁵ Cd(0.65 s)	436.29(37), 2147.19(19.1), 1700.96(10.8)
• 1099.5 3	0.0058 25	⁸² Br(35.30 h)	776.517(83.5), 554.348(70.8), 619.106(43.4)
1099.5 3	0.75 3	⁸² Rb(6.472 h)	776.517(84), 554.348(62.4), 619.106(37.976)
1099.5 3	0.44 5	¹²⁷ In(1.09 s)	1597.7(49), 646.1(6.2), 805.1(5.6)
1099.5 2	0.96 6	¹⁹⁰ Au(42.8 m)	295.78(71.0), 301.82(23.4), 597.67(9.4)
1099.560 190	0.245 6	⁶¹ Cu(3.333 h)	282.956(12.2), 656.008(10.77), 67.412(4.23)
1099.6 4	1.02 15	⁹⁹ Pd(21.4 m)	136.00(73), 263.60(15.2), 673.38(6.9)
1099.6 7	0.47 9	¹⁰³ Cd(7.3 m)	1461.81(12), 1448.70(5.55), 1079.90(5.44)
1099.6 3	0.173 24	¹⁵³ Dy(6.4 h)	80.723(11.10), 213.754(10.90), 99.659(10.51)
1099.68 11	0.111 12	⁸¹ Rb(4.576 h)	190.38(64.0), 446.15(23.2), 510.31(5.3)
1099.68 11	0.075 3	⁸¹ Rb(30.5 m)	49.56(0.78), 643.6(0.115), 1194.9(0.112)
1099.7 4	$\dagger 5$ 2	¹¹⁴ Te(15.2 m)	90.28($\dagger 100$), 83.8($\dagger 67$), 1417.6($\dagger 32$)
1099.7 5	0.095 16	¹²⁴ Cs(30.8 s)	353.9(40), 914.8(4.0), 492.6(3.6)
1099.88 4	0.099 10	⁸⁷ Br(55.60 s)	1419.71(22.0), 1476.04(7.9), 1577.60(6.0)
• 1099.89 11	0.063 7	¹⁶⁹ Lu(34.06 h)	960.622(23.4), 191.2137(20.6), 1449.74(9.92)
1099.9 2	4.4 5	¹⁹⁰ Tl(3.7 m)	416.4(91), 625.4(82), 731.1(37)
1099.9 2	7.1 16	¹⁹⁰ Tl(2.6 m)	416.4(79), 625.4(11.1), 683.5(8.7)
1099.95 13	0.108 15	¹⁵¹ Nd(12.44 m)	116.80(43.4), 255.68(16.4), 1180.89(14.8)
1099.99 2	0.192 10	¹³³ La(3.912 h)	278.835(2.50), 302.353(1.648), 290.06(1.413)
1100 1	0.12 5	⁹⁵ Ru(1.643 h)	336.43(70.2), 1096.76(21.0), 626.77(17.8)
1100.0 2	0.0076 17	¹²¹ I(2.12 h)	212.189(84), 532.08(6.07), 598.74(1.47)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
1100.0 3	13 7	¹⁴⁶ Ho(3.6 s)	682.9(100), 925.3(69), 673.7(55)
1100.00 8	1.37 7	¹⁶² Tm(21.70 m)	102.00(17.5), 798.68(8.4), 227.52(7)
1100.0 3	0.00050 17	¹⁷³ Hf(23.6 h)	123.672(83), 296.974(33.9), 139.634(12.7)
1100.07 12	0.69 6	¹³⁴ I(52.6 m)	847.025(95.4), 884.090(64.9), 1072.547(15.0)
1100.10 28	0.151 20	⁹⁹ Nb(2.6 m)	97.785(7), 253.50(3.64), 2641.3(3.64)
1100.1 4	0.270 18	¹⁴⁷ Pr(13.4 m)	77.9921(15), 314.675(13.2), 641.380(10.0)
1100.1	>0.22	¹⁵⁵ Dy(9.9 h)	226.918(68.4), 184.564(3.37), 1089.8(>2.8)
1100.16 2	0.29 2	²¹³ Bi(45.59 m)	440.46(26.1), 292.80(0.429), 807.36(0.292)
1100.20 24	0.57 10	¹⁸⁴ Au(53.0 s)	162.97(50), 272.98(40), 362.47(17.5)
1100.3 2	2.3 3	⁸¹ Ge(7.6 s)	335.98(58.9), 792.94(34), 1495.53(19.9)
1100.3 30	0.042 14	⁹⁴ Tc(52.0 m)	871.082(94), 1868.68(5.7), 1522.11(4.5)
1100.33 10	2.34 13	¹⁹⁵ Tl(1.16 h)	563.52(10.5), 884.47(10.0), 1363.88(8.4)
1100.42 30	0.046	¹³⁷ I(24.5 s)	1218.00(12.8), 601.05(4.80), 1302.64(4.42)
1100.5 5	0.13 3	⁶³ Fe(6.1 s)	994.8(14.0), 1427.2(4.6), 1299.0(1.23)
• 1100.5 4	8.0×10^{-5} 4	¹²³ Sn(129.2 d)	1088.64(0.6), 1030.23(0.0310), 1021.00(0.00193)
1100.60 15	1.63 9	¹⁸⁰ Lu(5.7 m)	407.94(43.0), 1199.7(24.3), 1106.00(22.7)
1100.63 12	0.181 16	⁹³ Rb(5.84 s)	432.61(17.4), 986.05(6.8), 213.429(6.7)
1100.7 5	0.92 25	¹²¹ In(3.88 m)	60.34(20), 1041.1(1.12), 1121.2(0.51)
1100.7 8	0.047	¹⁴² La(91.1 m)	641.285(47), 2397.8(13.3), 2542.7(10.00)
1100.77 3	0.049 5	¹⁴⁹ Nd(1.728 h)	211.309(25.9), 114.314(19.2), 270.166(10.7)
1100.8 1	0.126 13	¹⁴³ Cs(1.78 s)	195.554(13), 232.421(8.32), 306.424(6.80)
1100.9 3	4.6 4	¹²⁸ La(5.0 m)	284.00(87), 479.24(54), 643.65(14.7)
1101.0 6	†0.77 12	¹²⁰ I(81.0 m)	560.44(†137), 1523.0(†21.1), 640.85(†17.1)
1101.0 3	0.50	¹²⁴ Sb(93 s)	645.855(25), 602.730(25), 498.3(25)
1101.0 3	1.47 13	¹²⁹ In(0.61 s)	2118.0(45), 1865.0(32), 769.3(9.1)
1101.0 4	0.7 3	¹²⁹ Sn(6.9 m)	1161.31(56.0), 1128.44(50), 760.8(16.8)
1101.0 3	2.92 13	¹⁴⁸ Ho(9.59 s)	1687.5(82.47), 660.8(58.94), 504.3(18.62)
1101.12 2	0.18 4	¹⁴⁵ Cs(0.594 s)	175.36(20), 198.93(10.9), 112.46(10.71)
1101.14 20	0.27 8	¹⁴² Cs(1.70 s)	359.598(27.2), 1326.46(12.92), 966.89(9.0)
1101.18 24	0.64 5	¹¹¹ Sn(35.3 m)	1152.98(2.7), 1914.70(1.99), 761.97(1.48)
1101.2 6	0.76 18	¹¹⁰ Sb(23.0 s)	1211.87(92), 985.03(31.2), 1243.6(13.4)
1101.2 2	1.55 12	²³⁰ Fr(19.1 s)	711.0(13.6), 129.1(11.0), 728.4(7.3)
1101.26 4	0.148 20	⁶⁶ Ge(2.26 h)	43.89(28.7), 381.85(28), 272.97(10.4)
1101.267 125.39 18		⁷⁴ Ga(8.12 m)	595.847(91), 2353.46(44.5), 608.353(14.3)
• 1101.267 120.0071 18		⁷⁴ As(17.77 d)	595.847(59), 608.353(0.552), 1204.208(0.285)
1101.29	0.012 12	⁴⁴ K(22.13 m)	1157.031(58), 2150.76(22.7), 2518.95(9.69)
1101.4 3	0.48 7	¹³⁶ I(83.4 s)	1313.02(67), 1321.08(24.8), 2289.6(10.4)
1101.4	1.1	²⁰⁰ Bi(36.4 m)	1026.5(100), 462.34(98), 419.70(91)
1101.45 8	0.023 4	¹³⁵ Ce(17.7 h)	265.56(41.8), 300.07(23.5), 606.76(18.8)
1101.45 15	0.31 8	²⁰⁴ At(9.2 m)	684.341(95), 516.318(90), 426.253(67.5)
1101.5 2	†10 1	¹⁵³ Yb(4.2 s)	547.4(†100), 674.1(†61), 369.6(†32)
1101.58 3	1.62 3	¹³⁵ I(6.57 h)	1260.409(28.90), 1131.511(22.74), 1678.027(9.62)
• 1101.59 4	0.338 16	¹⁵³ Tb(2.34 d)	212.038(31.0), 170.504(6.8), 109.758(6.4)
1101.6 10	0.11 4	¹⁴⁰ Cs(63.7 s)	602.345(71.1), 908.25(11.6), 1200.25(6.39)
1101.7 5		¹⁰² Ag(7.7 m)	556.52(48), 1834.7(9.8), 2054.4(6.6)
• 1101.70 10	0.95 3	¹⁷⁰ Lu(2.00 d)	84.2551(4.256), 1280.25(3.450), 2041.88(1.434)
1101.8 1	0.0110 12	¹²⁶ Cs(1.64 m)	388.633(41), 491.243(5.0), 925.24(4.56)
1101.8 8	0.39 19	¹²⁸ Sb(10.4 m)	753.82(96.4), 743.22(96), 314.12(89)
• 1101.80 11	0.042 6	¹⁵⁶ Eu(15.19 d)	811.79(9.70), 88.9667(8.4), 1230.68(7.98)
1101.8	0.06	¹⁸⁵ Ir(14.4 h)	254.4(13.3), 1828.8(10), 60.0(5.7)
1101.8	0.023 12	¹⁹² Au(4.94 h)	316.50791(58.0), 295.95827(22.3), 2236.89(5.6)
1101.8 4	0.19 3	²⁰⁵ At(26.2 m)	719.30(31), 669.41(8.6), 628.88(5.6)
1101.9 10	0.011 3	¹⁰⁷ Rh(21.7 m)	302.77(66), 392.47(8.8), 312.21(4.8)
1101.9 1	9.7 5	¹¹⁹ Cd(2.20 m)	1025.0(24.8), 2021.3(22.6), 720.7(17.9)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
1101.9 3	0.136 17	¹⁹¹ Au(3.18 h)	586.45(17), 277.88(7.2), 674.19(6.8)
1101.9 3	†2.8 10	¹⁹² Bi(37 s)	853.8(†100.0), 501.8(†80), 504.3(†39)
1101.94 4	49.0 5	¹⁸³ Os(9.9 h)	1107.92(22.36), 1034.85(6.02), 484.40(2.21)
1102		¹¹² In(14.97 m)	617.27(4.6), 606.49(1.111), 1253.43(0.218)
1102.0 3	0.114 14	¹⁴⁶ Ba(2.22 s)	140.7(20.2), 251.2(19.6), 121.2(14.2)
1102.00 15	0.27 4	¹⁵⁴ Tb(9.4 h)	123.071(30), 247.925(22.1), 540.18(20)
1102.02 23	0.198 25	⁸⁶ Y(14.74 h)	1076.64(83), 627.72(32.6), 1153.01(30.5)
1102.06 36	0.049 9	¹⁷⁴ Ta(1.05 h)	206.50(58), 91.00(16.0), 1205.92(4.9)
1102.1 5	1.25 10	¹⁴⁴ La(40.8 s)	397.440(94.3), 541.20(39.2), 844.8(22.3)
1102.12 17	0.101 20	¹⁶³ Yb(11.05 m)	860.28(10.1), 63.62(6.5), 123.21(1.98)
1102.14 5	0.50 8	²⁰⁴ Bi(11.22 h)	899.15(98), 374.72(82), 984.02(59)
• 1102.149 182.54 6		¹²¹ Te(154 d)	37.138(0.94), 998.291(0.0796), 909.847(0.0703)
1102.18 15	0.76 8	⁹¹ Kr(8.57 s)	108.788(43.5), 506.592(19.1), 612.87(7.7)
1102.20 3	3.09 21	¹²³ Cd(1.82 s)	1165.86(25.7), 1027.45(22.6), 2102.81(12.5)
1102.2 2	0.100 16	¹⁴² Eu(2.34 s)	768.1(10), 1658.1(1.75), 1754.1(1.49)
1102.24 17	0.107 13	¹³⁸ Xe(14.08 m)	258.411(31.5), 434.562(20.3), 1768.26(16.7)
1102.3 20	0.0023 11	¹⁵⁷ Dy(8.14 h)	326.16(92), 182.20(1.84), 83.01(0.62)
1102.39 8	0.169 9	¹⁸⁷ Ir(10.5 h)	912.95(4.79), 427.12(4.12), 400.89(3.94)
1102.40 20	1.5 4	¹⁰² Nb(4.3 s)	296.611(79), 1633.10(41), 551.54(30)
1102.42 10	0.0165 16	¹³⁷ Xe(3.818 m)	455.490(31), 848.95(0.62), 1783.43(0.415)
1102.5	0.026 9	¹⁴⁹ Tb(4.118 h)	352.24(29.43), 164.98(26.4), 388.57(18.37)
1102.5 3	0.23 3	¹⁵³ Dy(6.4 h)	80.723(11.10), 213.754(10.90), 99.659(10.51)
1102.5 2	0.0035 10	²⁴⁶ Am(25.0 m)	1078.86(27.7), 798.80(25), 1062.04(17.1)
1102.54 22	0.065 12	¹¹⁸ In(4.45 m)	1229.68(96), 1050.69(81.0), 683.08(54.3)
1102.60 7	3.25 13	⁹⁹ Ag(124 s)	264.41(65), 832.29(13.5), 805.07(12.5)
• 1102.60 3	0.583 3	¹⁶⁰ Tb(72.3 d)	879.383(30.01), 298.580(25.51), 966.171(25.21)
1102.60 3	†0.45 9	¹⁶⁰ Ho(5.02 h)	728.18(†100), 879.383(†65.9), 962.317(†59.1)
1102.60 3	0.21 4	¹⁶⁰ Ho(25.6 m)	728.18(46.9), 879.383(26.6), 962.317(25.6)
1102.6 3	0.195 24	¹⁶¹ Er(3.21 h)	826.6(3.0), 211.15(12.2), 592.6(3.7)
1102.6 9	†2.3 7	¹⁹¹ Tl(5.22 m)	452.6(†100), 470.1(†98), 391.6(†96)
• 1102.64 15	0.0111 23	¹⁴⁶ Eu(4.59 d)	747.2(98), 633.03(43), 634.07(37)
1102.66 10	0.476 19	⁹⁸ Nb(51.3 m)	787.374(93), 722.645(73.8), 1168.830(17.8)
1102.7 12	†1.7 9	¹⁶⁰ Tm(9.4 m)	125.8(†100), 728.5(†37), 264.1(†27)
1102.8 10	0.29 6	¹³⁷ Nd(38.5 m)	75.5(17.0), 580.6(13), 306.60(10.0)
1102.8 3	†6.3 19	¹⁵⁵ Nd(8.9 s)	180.574(†100), 418.99(†75), 955.08(†50)
• 1102.90 20	0.0288 21	⁸³ Sr(32.41 h)	762.65(30), 381.53(14.1), 418.37(4.41)
• 1102.9 2	0.0288 21	⁸³ Sr(32.41 h)	762.65(30), 381.53(14.1), 418.37(4.41)
1102.9 6	0.31 10	¹²¹ Cd(8.3 s)	2059.41(21.0), 1020.89(18.9), 987.81(13.6)
1102.9 7	0.37 3	¹⁹⁹ Bi(27 m)	560.1(22.0), 424.85(22), 841.7(11)
1102.93 30	0.14 6	¹⁹⁵ Tl(1.16 h)	563.52(10.5), 884.47(10.0), 1363.88(8.4)
1103.0 2	5.1 4	⁹⁷ Y(3.75 s)	3287.6(18.1), 3401.3(14.1), 1996.6(7.4)
1103.0 2	92.6 21	⁹⁷ Y(1.17 s)	161.4(71.8), 1091(56), 970.0(39.9)
1103 2	0.28 9	¹⁰⁴ Ag(69.2 m)	555.796(92.6), 767.72(65.7), 941.7(25.0)
1103.0 5	0.072 20	²²⁴ Fr(3.30 m)	215.985(33.1), 131.613(16.3), 836.90(9.8)
1103.0 3	0.00036 14	²⁵⁰ Bk(3.217 h)	989.12(45), 1031.85(35.6), 1028.65(4.91)
1103.0 3	0.09 3	²⁵⁰ Es(2.22 h)	989.12(13.3), 1031.85(10.6), 828.82(5.5)
1103.1 4	>1.3	¹⁰² Zr(2.9 s)	599.60(13.9), 535.30(10.6), 64.50(8.9)
• 1103.12 25	0.0059 7	¹⁴⁵ Eu(5.93 d)	893.73(66), 653.512(15.0), 1658.53(14.9)
1103.16 4	†16.7 13	¹⁰² Tc(4.35 m)	475.070(†115), 628.05(†35.3), 631.28(†21.3)
1103.16 4	0.38 7	¹⁰² Tc(5.28 s)	475.070(7), 468.59(0.88), 865.5(0.87)
• 1103.16 4	4.6 3	¹⁰² Rh(2.9 y)	475.070(95), 631.28(55.9), 697.49(43.9)
• 1103.16 4	†2.99 10	¹⁰² Rh(207 d)	475.070(†47), 628.05(†4.6), 468.59(†2.99)
1103.18 20	0.90 6	⁸⁹ Kr(3.15 m)	220.948(20.1), 586.03(16.6), 904.27(7.2)
1103.18 12	0.73 6	¹³⁴ I(52.6 m)	847.025(95.4), 884.090(64.9), 1072.547(15.0)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
1103.2 3	0.15 11	²⁰⁵ Po(1.66 h)	872.39(37), 1001.21(28.8), 849.83(25.5)
• 1103.25 2	0.415 4	¹⁴³ Ce(33.039 h)	293.266(42.80), 57.356(11.7), 664.571(5.69)
1103.29 6	3.7 4	¹³⁰ Sb(6.3 m)	839.49(100), 793.53(86), 182.36(41)
1103.3 1	0.050 4	¹¹⁹ I(19.1 m)	257.52(87), 635.86(2.69), 320.53(2.17)
1103.35 25	0.42 4	¹¹² Ag(3.130 h)	617.27(43), 1387.67(5.4), 606.49(3.1)
1103.4 6	0.23 7	¹⁵⁹ Er(36 m)	624.5(33), 649.1(23.4), 205.92(9.7)
1103.4 1	5.40 16	²⁰⁹ At(5.41 h)	545.0(91), 781.9(83.5), 790.2(63.5)
1103.45 15	†1.34 20	¹⁸⁴ Ir(3.09 h)	263.97(†100), 119.80(†45), 390.38(†38)
1103.5 5	0.0008 4	¹³⁴ La(6.45 m)	604.699(5.05), 1554.934(0.414), 563.227(0.359)
1103.5	0.00054 23	²⁵⁰ Bk(3.217 h)	989.12(45), 1031.85(35.6), 1028.65(4.91)
1103.52 18	0.69 17	¹⁸¹ Re(19.9 h)	365.57(56), 360.70(20), 639.30(6.4)
1103.52 20	0.0046 7	²¹¹ Pb(36.1 m)	404.853(3.78), 832.01(3.52), 427.088(1.76)
1103.6 4	0.44 8	¹²¹ Cs(122 s)	179.4(30.2), 196.0(24.1), 459.7(12.0)
1103.63 13	0.38 6	²⁰² Bi(1.72 h)	960.67(99), 422.18(83.7), 657.49(60.6)
1103.64 30	0.057	¹³⁷ I(24.5 s)	1218.00(12.8), 601.05(4.80), 1302.64(4.42)
1103.7 4	0.27 3	¹⁷⁷ W(135 m)	115.65(50), 426.98(13.2), 1036.4(10.3)
1103.7 3	0.09 5	²¹⁴ Bi(19.9 m)	609.312(44.8), 1764.494(15.36), 1120.287(14.80)
1103.9 3	0.11 6	¹³³ Te(55.4 m)	912.671(55.28), 647.51(19.4), 863.955(15.6)
1103.9 8	0.0154 24	²²⁸ Ac(6.15 h)	911.205(26.6), 968.971(16.2), 338.322(11.3)
1103.9 8	0.019 6	²²⁸ Pa(22 h)	911.205(4.19), 463.005(1.250), 964.770(4.25)
1103.92 7	0.343 19	⁹⁰ Kr(32.32 s)	1118.69(39.0), 121.82(35.5), 539.49(30.8)
1103.964 120	0.026 4	¹⁹⁹ Pt(30.80 m)	542.993(15), 493.772(5.59), 317.056(4.95)
• 1104.0 5	0.013 6	⁷⁹ Kr(35.04 h)	261.29(13), 397.54(9.3), 606.09(8.12)
1104.00 20	10.1 11	¹⁰² Sr(69 ms)	243.80(53), 150.15(18.0), 93.89(13.4)
1104.0 10	0.36 12	²⁴² Np(5.5 m)	785.7(60), 944.8(37.8), 159.0(19.2)
1104.05 3	0.0259 10	¹⁹⁴ Ir(19.15 h)	328.455(13.1), 293.545(2.55), 645.157(1.17)
• 1104.05 3	1.98 12	¹⁹⁴ Au(38.02 h)	328.455(60), 293.545(10.2), 1468.91(6.3)
1104.1 3	0.48 9	¹⁶⁰ Tm(74.5 s)	264.1(9), 125.8(6.5), 375.8(2.4)
1104.14 11	0.043 22	¹⁸⁴ Ta(8.7 h)	414.03(72), 252.848(43), 920.932(32.0)
1104.16 15	†4.0 6	¹⁸¹ Pt(51 s)	289.29(†100), 111.97(†100), 230.15(†92)
• 1104.162 260	0.0115 8	⁷¹ As(65.28 h)	174.954(82.00), 1095.490(4.08), 499.876(3.624)
1104.23 7	0.0340 11	⁷⁷ Ge(11.30 h)	264.44(54), 211.03(30.8), 215.50(28.6)
1104.3 2	0.21 6	⁹⁵ Ru(1.643 h)	336.43(70.2), 1096.76(21.0), 626.77(17.8)
1104.3 10	0.21 9	¹²⁹ Sb(4.40 h)	812.8(43), 914.6(20.0), 544.7(17.9)
1104.3 10	1.17 21	¹⁶⁴ Tb(3.0 m)	168.838(25.4), 754.80(23.3), 215.07(21)
1104.31 76	0.048 24	¹⁴¹ Xe(1.73 s)	909.23(24.0), 118.705(16.1), 105.937(9.8)
1104.31 5	0.988 22	¹⁵³ Dy(6.4 h)	80.723(11.10), 213.754(10.90), 99.659(10.51)
• 1104.321 160	0.367 8	¹⁴⁸ Eu(54.5 d)	550.284(98.5), 629.987(71.9), 611.293(20.5)
1104.38 5	1.28 5	⁷⁹ Ga(2.847 s)	464.79(24.2), 516.41(21.5), 1187.28(12.8)
1104.5 3	23 5	¹¹⁶ Rh(0.9 s)	340.5(90), 639.4(52), 538.4(40)
1104.5 10	0.20 5	²⁰⁸ At(1.63 h)	686.527(98), 660.040(89), 177.595(48.6)
1104.55 22	0.019 3	¹⁶⁸ Ho(2.99 m)	741.356(36.6), 821.164(34.5), 815.990(18.6)
1104.6 3	0.5 3	¹⁶⁸ Lu(6.7 m)	198.82(28), 979.22(20), 896.12(15)
1104.69 23	0.15 3	⁹³ Sr(7.423 m)	590.238(67), 875.73(24.1), 888.13(21.8)
1104.7 3	0.56 21	¹⁸³ Os(9.9 h)	1101.94(49.0), 1107.92(22.36), 1034.85(6.02)
1104.8 10	0.09 4	¹⁴⁰ Cs(63.7 s)	602.345(71.1), 908.25(11.6), 1200.25(6.39)
1104.8 8	0.047	¹⁴² La(91.1 m)	641.285(47), 2397.8(13.3), 2542.7(10.00)
1104.8 2	0.070 17	¹⁷³ Ta(3.14 h)	172.2(18), 69.70(5.9), 90.3(5.0)
1104.8 3	0.08 4	²¹⁴ Bi(19.9 m)	609.312(44.8), 1764.494(15.36), 1120.287(14.80)
1104.93 9	0.43 4	⁸¹ Ga(1.221 s)	216.47(37.4), 828.26(22.1), 711.18(17.6)
1104.99 36	0.034 8	¹⁷⁴ Ta(1.05 h)	206.50(58), 91.00(16.0), 1205.92(4.9)
1105.0 7	1.0 3	⁹⁸ Ag(46.7 s)	863.1(100), 678.5(85), 570.93(53)
1105.0 3	0.041 9	¹³⁹ Pm(4.15 m)	402.8(15), 463.1(4.1), 367.8(3.52)
1105		²¹⁷ Ac(740 ns)	498

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
• 1105.2		²³⁴ Np(4.4 d)	1558.31(18.72), 1527.21(11.2), 1601.80(9.1)
1105.0.5	>0.0007	²⁴⁶ Am(25.0 m)	1078.86(27.7), 798.80(25), 1062.04(17.1)
1105.06.15	0.33.6	¹⁴⁸ La(1.05 s)	158.468(55.6), 989.85(9.3), 760.30(8.6)
1105.06.7	0.199.16	²⁰⁴ Bi(11.22 h)	899.15(98), 374.72(82), 984.02(59)
1105.2.2		⁶⁹ As(15.2 m)	232.69(11), 145.95(4.96), 86.78(3.44)
1105.2.3	0.99.10	⁹⁸ Rb(114 ms)	144.224(24.5), 1693.3(5.9), 2171.7(5.7)
1105.20.10	1.21.8	¹²⁸ In(0.84 s)	1168.80(40), 935.20(6.5), 1089.53(6.0)
1105.2.2	0.090.9	¹³⁷ Pr(1.28 h)	836.7(1.8), 433.9(1.28), 514.0(1.08)
1105.24.9	†7.8.8	¹⁸⁴ Ir(3.09 h)	263.97(†100), 119.80(†45), 390.38(†38)
1105.3		⁸¹ Se(18.45 m)	275.988(0.7), 290.03(0.55), 828.27(0.280)
1105.3.3	2.72.21	¹³⁹ Nd(5.50 h)	113.94(40), 737.96(35), 982.2(26.4)
1105.3.4	†1.4.3	¹⁴⁴ Cs(1.01 s)	199.326(†100.0), 639.00(†21.2), 758.96(†20.6)
1105.3.1	0.724.14	¹⁴⁶ Ba(2.22 s)	140.7(20.2), 251.2(19.6), 121.2(14.2)
1105.43.19	0.043.22	²⁴⁴ Am(26 m)	1084.181(0.37), 941.95(0.36), 1062.953(0.28)
1105.5.15		¹⁹⁶ Tl(1.84 h)	426.0(84), 610.5(11.9), 635.5(9.8)
1105.57.8	0.55.7	¹¹⁹ Te(16.03 h)	644.01(84), 699.85(10.1), 1749.65(3.95)
1105.6.5	0.09.4	¹⁰⁹ Ru(34.5 s)	206.29(22.0), 225.98(19.6), 1929.05(13.7)
1105.6.3	0.101.6	¹³⁹ Xe(39.68 s)	218.59(56), 296.53(21.7), 174.97(11.3)
1105.6.21	0.06	¹⁷⁵ Tm(15.2 m)	514.868(65), 941.23(15), 363.942(12.7)
1105.6.8	0.63.4	²²⁸ Fr(39 s)	473.7(10.2), 474.0(7.6), 410.40(6.3)
1105.65.11	†0.87.5	¹⁴⁸ Tb(60 m)	784.430(†119.0), 489.049(†28.0), 1079.025(†16.2)
1105.66.25	0.07.3	¹²² In(10.3 s)	1140.55(98), 1001.58(50.7), 1190.58(20.5)
1105.66.25	1.8.5	¹²² In(10.8 s)	1140.55(100), 1001.58(98.4), 103.74(81)
1105.7.3	0.74.11	¹⁰² Tc(5.28 s)	475.070(7), 468.59(0.88), 865.5(0.87)
• 1105.7.3	†0.40.3	¹⁰² Rh(207 d)	475.070(†47), 628.05(†4.6), 1103.16(†2.99)
1105.7	0.35	¹⁹⁹ Po(4.13 m)	1002.19(19), 1034.3(16), 362.01(7)
1105.8.10	†5	⁹⁹ Rb(59 ms)	90.8(†100), 125.2(†40), 1071.6(†26)
1105.80.20	0.028.5	¹⁰⁵ Cd(55.5 m)	961.84(4.69), 346.870(4.20), 1302.459(3.98)
1105.8.8	0.06.4	¹⁵⁴ Tb(9.4 h)	123.071(30), 247.925(22.1), 540.18(20)
1105.8.3	2.0.4	¹⁸⁰ Ir(1.5 m)	276.4(56), 132.2(38.1), 699.0(13.4)
1105.8.3	†1.3.3	¹⁸⁹ Hg(7.6 m)	320.99(†100), 78.21(†63), 565.42(†48)
1105.84.13	0.00132.12	¹⁶¹ Gd(3.66 m)	360.94(0.59), 314.92(22.7), 102.315(13.9)
1105.9.4	†1.2.4	¹⁸⁵ Pt(33.0 m)	229.60(†100), 135.3(†80), 197.4(†74)
1105.9.20	0.57.9	¹⁹⁶ Tl(1.84 h)	426.0(84), 610.5(11.9), 635.5(9.8)
1105.92.10	0.027.3	¹⁷⁹ Lu(4.59 h)	214.335(11.3), 214.930(0.46), 123.3790(0.45)
1105.93.14	0.026.4	¹³¹ La(59 m)	108.081(25.0), 417.783(18.0), 365.162(16.9)
1106.0.5	0.042.21	¹⁰⁷ Ru(3.75 m)	194.05(9.9), 847.93(5.3), 462.61(3.66)
1106.0.2	0.112.19	¹⁵¹ Nd(12.44 m)	116.80(43.4), 255.68(16.4), 1180.89(14.8)
• 1106.00.12	0.053.5	¹⁵³ Tb(2.34 d)	212.038(31.0), 170.504(6.8), 109.758(6.4)
1106.1	0.42.11	¹⁶⁴ Tb(3.0 m)	168.838(25.4), 754.80(23.3), 215.07(21)
1106.00.15	22.7.8	¹⁸⁰ Lu(5.7 m)	407.94(43.0), 1199.7(24.3), 215.256(22.1)
1106.01.6		¹⁰⁸ Rh(16.8 s)	433.937(43), 618.84(15.0), 497.22(5.2)
1106.01.6	0.00165.15	¹⁰⁸ Ag(2.37 m)	433.937(0.50), 618.84(0.261), 1007.22(0.0139)
• 1106.11.6	0.152.14	¹⁶⁹ Lu(34.06 h)	960.622(23.4), 191.2137(20.6), 1449.74(9.92)
1106.19.2	0.124.7	¹⁷⁸ Lu(28.4 m)	93.180(6.0), 1340.8(3.22), 1310.05(1.40)
1106.19.2	0.536.12	¹⁷⁸ Ta(9.31 m)	93.180(1.78), 1350.68(1.18), 1340.8(1.027)
1106.2.6	0.29.3	¹⁰⁹ In(4.2 h)	203.5(74), 623.7(5.5), 1148.9(4.3)
1106.2.2	2.91.19	¹⁵² Tb(4.2 m)	344.281(20.8), 411.115(18.8), 471.9(12.2)
1106.2.3	0.057.16	²³⁰ Ac(122 s)	454.95(8), 508.20(5.15), 1243.9(3.50)
1106.25.14	39.2.24	⁴⁸ Mn(158.1 ms)	752.15(99.7), 3676.2(30.4), 3934.1(22.9)
1106.25.8	0.177.18	¹⁸⁹ Pt(10.87 h)	721.41(9.3), 94.33(7.6), 568.84(7.1)
1106.26.25	0.10.3	⁴⁴ K(22.13 m)	1157.031(58), 2150.76(22.7), 2518.95(9.69)
1106.3.7	0.047.11	¹¹⁵ Ag(20.0 m)	229.08(18), 212.80(4.4), 472.70(4.0)
1106.3.5	4.1.4	¹⁴⁸ Pr(2.0 m)	301.702(95), 450.58(50), 697.61(40)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
1106.4 3	$\dagger 2.5 5$	$^{152}\text{Tm}(8.0 \text{ s})$	807.9($\dagger 100$), 715.9($\dagger 13$), 672.5($\dagger 9.5$)
• 1106.4	1.4×10^{-6}	$^{253}\text{Es}(20.47 \text{ d})$	41.79(0.050), 389.11(0.0264), 387.1(0.00810)
1106.5 5	0.4 3	$^{125}\text{Cd}(0.57 \text{ s})$	1027.53(25.8), 1173.16(25.1), 736.65(12.6)
1106.5 2	1.5 4	$^{152}\text{Ho}(49.5 \text{ s})$	647.2(92), 613.8(88.4), 683.3(88)
1106.5 6	0.58 19	$^{178}\text{Re}(13.2 \text{ m})$	237.3(45), 105.9(23.0), 939.1(8.9)
1106.5 3	0.47 6	$^{230}\text{Fr}(19.1 \text{ s})$	711.0(13.6), 129.1(11.0), 728.4(7.3)
1106.6 6	0.028 15	$^{161}\text{Er}(3.21 \text{ h})$	826.6(3.0), 211.15(12.2), 592.6(3.7)
1106.7 2	$\dagger 10.0 11$	$^{152}\text{Tb}(17.5 \text{ h})$	344.281($\dagger 1500$), 586.294($\dagger 223$), 271.135($\dagger 203$)
1106.8 4	0.037 19	$^{98}\text{Nb}(51.3 \text{ m})$	787.374(93), 722.645(73.8), 1168.830(17.8)
1106.8 2	0.65 7	$^{200}\text{Po}(11.5 \text{ m})$	671.0(34.0), 617.7(19.7), 434.4(9.3)
1106.82 8	11.6 4	$^{45}\text{Ar}(21.48 \text{ s})$	1020.04(34.0), 3703.2(33.3), 61.35(25.0)
• 1106.863 170.0313 11		$^{147}\text{Eu}(24.1 \text{ d})$	197.299(27), 121.220(22.9), 677.516(9.8)
1106.88 2	49	$^{96}\text{Y}(9.6 \text{ s})$	1750.42(89), 915.0(60), 617.1(56)
1106.9 6	1.00 20	$^{124}\text{In}(2.4 \text{ s})$	1131.64(100), 969.94(52), 1072.85(47)
1106.9 2	0.082 10	$^{234}\text{Pa}(6.70 \text{ h})$	131.30(18), 946.00(13.4), 883.24(9.6)
• 1106.93 8	0.0049 8	$^{71}\text{As}(65.28 \text{ h})$	174.954(82.00), 1095.490(4.08), 499.876(3.624)
1107.0 10	0.7 4	$^{71}\text{Zn}(3.96 \text{ h})$	386.28(93), 487.38(62), 620.18(57)
1107.0 3	0.21 3	$^{121}\text{Ag}(0.78 \text{ s})$	314.55(32.1), 353.43(19.9), 500.61(9.3)
1107.0 7	0.30 4	$^{135}\text{Te}(19.0 \text{ s})$	603.5(37.0), 266.8(10.36), 870.3(7.73)
1107 1	0.09 4	$^{135}\text{Pr}(24 \text{ m})$	296.12(24), 82.64(13.7), 213.45(13.0)
1107.0 5	0.13 9	$^{157}\text{Tm}(3.63 \text{ m})$	455.00(9.3), 385.5(8.8), 348.40(8.4)
1107.0 3	0.099 21	$^{162}\text{Tm}(21.70 \text{ m})$	102.00(17.5), 798.68(8.4), 227.52(7)
• 1107.01 6	36	$^{69}\text{Ge}(39.05 \text{ h})$	574.17(13.3), 872.14(11.9), 1336.72(4.5)
1107.1 1	13.2 4	$^{100}\text{Rh}(20.8 \text{ h})$	539.59(78.4), 2376.1(35.3), 1553.4(21)
1107.1 3	0.11 3	$^{133}\text{Ce}(4.9 \text{ h})$	477.22(39), 510.36(20.7), 58.39(19.2)
1107.16 5	0.474 15	$^{151}\text{Nd}(12.44 \text{ m})$	116.80(43.4), 255.68(16.4), 1180.89(14.8)
1107.2 3	0.48 9	$^{109}\text{Sn}(18.0 \text{ m})$	1099.4(30), 649.90(28.0), 1321.3(11.9)
1107.3 2	8	$^{143}\text{Eu}(2.63 \text{ m})$	1536.8(3.29), 1912.7(2.13), 107.69(2.09)
• 1107.4	0.049	$^{146}\text{Eu}(4.59 \text{ d})$	747.2(98), 633.03(43), 634.07(37)
1107.5 1	2.0 3	$^{71}\text{Zn}(3.96 \text{ h})$	386.28(93), 487.38(62), 620.18(57)
1107.5 3	0.00037	$^{96}\text{Tc}(51.5 \text{ m})$	778.224(1.9), 1200.231(1.08), 480.705(0.311)
• 1107.60 18	0.00040 16	$^{121}\text{Te}(154 \text{ d})$	1102.149(2.54), 37.138(0.94), 998.291(0.0796)
1107.6 5	0.40 12	$^{175}\text{Ta}(10.5 \text{ h})$	207.4(14.0), 348.5(12.0), 266.9(10.8)
1107.63 7	4.28 20	$^{158}\text{Eu}(45.9 \text{ m})$	944.09(25), 977.131(13.6), 79.5104(11)
• 1107.63 7	2.15 4	$^{158}\text{Tb}(180 \text{ y})$	944.09(44), 962.06(20.3), 79.5104(11.6)
• 1107.67 3	0.130 4	$^{148}\text{Eu}(54.5 \text{ d})$	550.284(98.5), 629.987(71.9), 611.293(20.5)
1107.7 7	0.48 9	$^{109}\text{Sn}(18.0 \text{ m})$	1099.4(30), 649.90(28.0), 1321.3(11.9)
• 1107.7 5	0.011 6	$^{153}\text{Tb}(2.34 \text{ d})$	212.038(31.0), 170.504(6.8), 109.758(6.4)
1107.72 17	$\dagger 5$	$^{181}\text{Pt}(51 \text{ s})$	289.29($\dagger 100$), 111.97($\dagger 100$), 230.15($\dagger 92$)
1107.73 7	0.56 3	$^{208}\text{At}(1.63 \text{ h})$	686.527(98), 660.040(89), 177.595(48.6)
• 1107.74 4	0.099 9	$^{205}\text{Bi}(15.31 \text{ d})$	1764.36(1.368), 703.44(31), 987.62(0.585)
1107.78 10	2.93 18	$^{89}\text{Kr}(3.15 \text{ m})$	220.948(20.1), 586.03(16.6), 904.27(7.2)
1107.8 6	0.77 9	$^{186}\text{Ir}(16.64 \text{ h})$	296.911(64.0), 137.155(42), 434.849(34.4)
1107.81 9	0.25	$^{176}\text{Ta}(8.09 \text{ h})$	1159.28(25), 88.34(12), 1224.93(6)
1107.85	0.67 5	$^{44}\text{K}(22.13 \text{ m})$	1157.031(58), 2150.76(22.7), 2518.95(9.69)
1107.9 3	7.8 17	$^{70}\text{Cu}(47 \text{ s})$	884.9(100), 901.7(87), 1251.7(57)
1107.92 8	0.0510 23	$^{81}\text{Rb}(4.576 \text{ h})$	190.38(64.0), 446.15(23.2), 510.31(5.3)
1107.92 4	22.36 20	$^{183}\text{Os}(9.9 \text{ h})$	1101.94(49.0), 1034.85(6.02), 484.40(2.21)
1108.0 4	0.68 17	$^{154}\text{Ho}(11.76 \text{ m})$	334.6(84), 412.4(15.0), 873.4(12.5)
1108.0 7	0.037 10	$^{163}\text{Yb}(11.05 \text{ m})$	860.28(10.1), 63.62(6.5), 123.21(1.98)
1108.0 12	0.185 11	$^{177}\text{Yb}(1.911 \text{ h})$	150.392(20.3), 1080.21(5.6), 1241.2(3.47)
1108.0 2	0.092 18	$^{197}\text{Tl}(2.84 \text{ h})$	425.84(12.9), 152.22(7.2), 1411.34(4.5)
1108.1 5	3.94 19	$^{201}\text{Bi}(108 \text{ m})$	629.1(24.0), 936.2(11.3), 1014.1(10.7)
1108.1 3	0.54 5	$^{231}\text{Np}(48.8 \text{ m})$	370.9(10), 348.4(3.63), 263.8(2.84)

• $t_{1/2} > 1 \text{ d}$

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
1108.2 3	0.064 6	¹⁹² Au(4.94 h)	316.50791(58.0), 295.95827(22.3), 2236.89(5.6)
1108.28 18	0.39 3	¹³⁸ I(6.49 s)	588.825(56), 875.23(9.2), 2262.19(3.86)
1108.3 9	0.42	¹⁰¹ Cd(1.2 m)	98.0(47), 1722.5(11), 1259.3(8)
1108.3 5	†6 4	¹⁰⁶ Nb(1.02 s)	171.548(†100), 350.70(†39), 714.00(†30)
1108.3 4	†6.7 16	¹¹¹ Ru(2.12 s)	303.8(†100), 211.7(†77.7), 382.0(†41.3)
1108.3 5	0.112 25	¹²⁷ Ba(12.7 m)	180.8(12), 114.8(9.3), 66.06(2.12)
• 1108.3 3	0.03 1	¹³¹ Te(30 h)	773.67(49.9), 852.21(27.0), 793.75(18.10)
1108.3 3	†0.71 3	¹⁴² Xe(1.22 s)	571.83(†100), 657.05(†79), 538.24(†77)
1108.4 3	†1.4 3	⁸³ Ge(1.85 s)	306.51(†100.0), 1193.77(†20.5), 1525.50(†13.6)
1108.4 2	1.25 12	¹⁴¹ Sm(22.6 m)	196.88(74), 431.6(40.4), 777.6(20.3)
1108.41 8	15.8 3	⁷⁶ Ga(32.6 s)	562.93(66), 545.51(26.0), 431.0(9.2)
1108.41 16	†8.9 8	¹⁵⁹ Yb(1.58 m)	166.16(†500), 177.12(†159), 390.20(†113)
1108.5 3	0.216 13	⁹⁹ Nb(2.6 m)	97.785(7), 253.50(3.64), 2641.3(3.64)
1108.63 6	0.051 5	¹³⁷ Xe(3.818 m)	455.490(31), 848.95(0.62), 1783.43(0.415)
1108.68 10	7.2 4	⁹¹ Kr(8.57 s)	108.788(43.5), 506.592(19.1), 612.87(7.7)
1108.7 3	0.19 6	²⁰² Bi(1.72 h)	960.67(99), 422.18(83.7), 657.49(60.6)
1108.71 12	0.0026 5	¹²⁵ Xe(16.9 h)	188.418(54), 243.378(30.1), 54.968(6.81)
1108.76 12	0.00592 20	¹⁰⁶ Rh(29.80 s)	511.842(20), 621.94(9.93), 1050.39(1.56)
1108.76 12	0.0042 5	¹⁰⁶ Ag(23.96 m)	511.842(17.0), 621.94(0.316), 873.48(0.199)
1108.8	>0.010	²¹⁴ Bi(19.9 m)	609.312(44.8), 1764.494(15.36), 1120.287(14.80)
1108.9 1	0.412 14	¹⁴⁶ Ba(2.22 s)	140.7(20.2), 251.2(19.6), 121.2(14.2)
1108.9 4	†0.5 2	¹⁷² Ir(2.0 s)	227.8(†100.0), 378.4(†62.0), 448.4(†40.5)
1108.93 18	0.046 7	¹³⁹ Cs(9.27 m)	1283.23(8.3), 627.24(1.78), 1420.66(0.91)
1108.93 6	0.093 9	¹⁸⁹ Pt(10.87 h)	721.41(9.3), 94.33(7.6), 568.84(7.1)
1109 1	0.34 11	⁷⁷ Rb(3.75 m)	66.52(57), 178.99(22.2), 393.37(9.7)
1109 1	0.26 10	¹⁵⁹ Eu(18.1 m)	67.8(19), 78.6(9.1), 95.7(7.0)
1109.0 8	0.24 4	¹⁶⁷ Lu(51.5 m)	29.66(14.4), 239.22(8.6), 213.19(3.6)
1109.0 5	0.00679 21	¹⁷¹ Er(7.516 h)	308.31(64.4), 295.901(28.9), 111.621(20.5)
1109.1 3	0.73 22	¹⁰⁰ Y(735 ms)	212.531(73), 118.59(15.4), 665.98(7.7)
1109.15	>0.028	¹⁰⁵ Cd(55.5 m)	961.84(4.69), 346.870(4.20), 1302.459(3.98)
• 1109.180 120.183 4		¹⁵² Eu(13.542 y)	344.281(26.58), 778.91(12.96), 411.115(2.231)
1109.180 12†63 5		¹⁵² Tb(17.5 h)	344.281(†1500), 586.294(†223), 271.135(†203)
1109.180 120.031 25		¹⁵² Tb(4.2 m)	344.281(20.8), 411.115(18.8), 471.9(12.2)
1109.2 8	0.13 8	⁹⁰ Rb(258 s)	831.69(94), 1375.36(16.7), 3317.00(14.4)
1109.2 10	0.038 19	¹⁰⁵ Cd(55.5 m)	961.84(4.69), 346.870(4.20), 1302.459(3.98)
1109.2 1	†0.70 11	¹⁵⁸ Ho(11.3 m)	218.21(†100.0), 98.91(†70), 945.7(†37)
1109.27 9	12.4 5	¹⁷² Ta(36.8 m)	214.02(46), 95.23(17.5), 1330.41(6.76)
1109.3 2	0.16 3	⁷¹ Zn(2.45 m)	511.56(32), 910.27(7.8), 389.88(3.8)
1109.36 4	18.6 6	⁸⁰ Ga(1.697 s)	659.14(78.0), 1083.47(48.4), 523.18(10.1)
1109.36 8	0.015 4	¹⁶⁸ Ho(2.99 m)	741.356(36.6), 821.164(34.5), 815.990(18.6)
1109.4	14 2	¹⁴⁵ Tb(29.5 s)	257.8(39), 987.8(37), 537.0(23)
1109.44 14	0.19 3	¹³³ Ce(4.9 h)	477.22(39), 510.36(20.7), 58.39(19.2)
1109.48 9	0.0105 7	¹⁵⁹ Ho(33.05 m)	121.012(36.2), 131.973(23.6), 309.594(17.2)
1109.48 5	0.115 4	²¹¹ Pb(36.1 m)	404.853(3.78), 832.01(3.52), 427.088(1.76)
1109.5 10	0.09 4	¹⁴⁰ Cs(63.7 s)	602.345(71.1), 908.25(11.6), 1200.25(6.39)
1109.6 2	0.58 6	⁷⁴ Br(25.4 m)	634.78(64), 219.05(18.1), 634.26(14.1)
1109.6 4	†0.38 10	¹⁸⁹ Hg(7.6 m)	320.99(†100), 78.21(†63), 565.42(†48)
1109.7 10	0.059 13	²²⁶ Fr(48 s)	253.73(22.3), 186.05(16.3), 253.9(2.5)
1109.72 5	1.198 19	⁷⁸ Rb(17.66 m)	454.97(63), 692.86(12.56), 562.15(11.41)
1109.72 5	13.12 24	⁷⁸ Rb(5.74 m)	454.97(81), 664.44(38.3), 692.86(12.26)
1109.8 3	0.00037	⁹⁶ Tc(51.5 m)	778.224(1.9), 1200.231(1.08), 480.705(0.311)
1109.8 3	0.099 19	¹⁵⁸ Tm(3.98 m)	192.13(62), 335.10(16.8), 1149.83(7.6)
1109.80 17	1.8 6	¹⁹³ Hg(11.8 h)	257.97(61), 407.63(25), 573.25(14.2)
1109.9 2	0.12 6	¹³³ Te(12.5 m)	312.072(62), 407.63(27.1), 1333.21(10.67)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
1109.96 2	0.87 3	¹⁵¹ Tb(17.609 h)	287.357(28.3), 251.863(26.3), 108.088(24.3)
• 1109.99 7	0.185 9	¹⁶⁹ Lu(34.06 h)	960.622(23.4), 191.2137(20.6), 1449.74(9.92)
1110	†1.9	¹⁰⁷ Sn(2.90 m)	1129.2(†100), 678.5(†100), 1540.6(†30)
• 1110	0.0028 21	¹⁵⁴ Eu(8.593 y)	123.071(40.79), 1274.436(35.19), 723.304(20.22)
1110.0 6	1.8 5	¹⁹¹ Hg(50.8 m)	252.5(57), 420.1(18.6), 578.6(17.6)
1110 20	6.9 20	²¹⁰ Tl(1.30 m)	799.7(99), 298(79), 1316(21)
1110.0 2	0.36 5	²⁴² Np(2.2 m)	735.93(5), 780.44(2.76), 1473.1(2.34)
• 1110.03 16	0.022 3	¹⁴⁶ Eu(4.59 d)	747.2(98), 633.03(43), 634.07(37)
1110.082 6	2.23 7	¹⁸⁴ Ta(8.7 h)	414.03(72), 252.848(43), 920.932(32.0)
• 1110.082 6	0.58 3	¹⁸⁴ Re(169 d)	252.848(10.7), 216.548(9.43), 920.932(8.14)
1110.1	0.16	¹⁵⁹ Er(36 m)	624.5(33), 649.1(23.4), 205.92(9.7)
1110.2 1	0.426 5	¹⁴³ Ba(14.33 s)	211.475(25), 798.79(15.6), 980.45(11.55)
1110.2 7	0.29 3	¹⁹⁹ Bi(27 m)	560.1(22.0), 424.85(22), 841.7(11)
1110.2 4	0.13 5	²⁰⁹ Rn(28.5 m)	408.32(50.3), 745.78(22.8), 337.45(14.5)
1110.25 7	0.171 19	¹⁵³ Dy(6.4 h)	80.723(11.10), 213.754(10.90), 99.659(10.51)
1110.26 10	0.285 19	⁸¹ Sr(22.3 m)	153.54(33.8), 147.76(30.1), 443.34(17.5)
1110.28 25	0.17 3	¹⁷⁹ Re(19.5 m)	430.221(28), 289.968(26.9), 1680.244(13.0)
1110.3	1.1	⁴³ Ar(5.37 m)	975.0(34), 738.1(15), 1439.5(13)
1110.3 3	0.42 7	⁸³ Se(22.3 m)	356.687(70), 510.17(43), 224.8(32.7)
1110.3 5	0.20 4	¹⁴⁰ Pm(5.95 m)	1028.19(100), 773.74(100), 419.57(92)
1110.3 1	0.0107 21	¹⁶⁷ Yb(17.5 m)	113.34(55.3), 106.18(22.5), 176.25(21)
1110.4 5	2.9 3	⁸⁴ Y(40 m)	793.3(99), 974.6(75), 1040.2(56)
1110.4 4	0.108 11	⁸⁵ Y(4.86 h)	231.67(22.8), 2123.8(5.0), 767.40(3.6)
1110.4	1.2	¹⁴⁵ Ba(4.31 s)	96.6(17), 91.9(7), 65.9(5)
1110.4 6	0.032 12	¹⁶¹ Er(3.21 h)	826.6(3.0), 211.15(12.2), 592.6(3.7)
1110.4 4	0.30 6	¹⁸³ Os(9.9 h)	1101.94(49.0), 1107.92(22.36), 1034.85(6.02)
1110.44 19	0.093 19	⁹⁷ Zr(16.91 h)	743.36(93), 507.64(5.03), 1147.97(2.61)
1110.5 4	1.06 18	⁶⁰ Cu(23.7 m)	1332.501(88), 1791.6(45.4), 826.06(21.7)
1110.5 3	0.13 3	⁹⁵ Rb(377.5 ms)	352.02(49), 204.02(15.1), 680.7(14.8)
1110.5 3	0.73 22	¹⁰⁰ Y(735 ms)	212.531(73), 118.59(15.4), 665.98(7.7)
1110.5 8	†4 3	¹⁶⁴ Tm(2.0 m)	91.40(†1500), 1154.66(†366), 768.91(†279)
1110.54 4	0.055 6	¹⁸⁰ Re(2.44 m)	902.795(90), 103.557(22.2), 825.357(9.9)
1110.6 3	0.84 21	¹²¹ Cd(8.3 s)	2059.41(21.0), 1020.89(18.9), 987.81(13.6)
• 1110.6 5	0.010 5	¹⁴⁸ Eu(54.5 d)	550.284(98.5), 629.987(71.9), 611.293(20.5)
1110.6 1	0.062 10	²³⁴ Pa(6.70 h)	131.30(18), 946.00(13.4), 883.24(9.6)
1110.610 100.314 21		²²⁸ Ac(6.15 h)	911.205(26.6), 968.971(16.2), 338.322(11.3)
1110.610 100.450 19		²²⁸ Pa(22 h)	911.205(4.19), 463.005(1.250), 964.770(4.25)
1110.64 6	0.2240 22	⁷³ Se(7.15 h)	360.80(108), 67.03(78), 865.09(0.584)
• 1110.65 30	0.0121 9	¹⁷⁰ Lu(2.00 d)	84.2551(4.256), 1280.25(3.450), 2041.88(1.434)
1110.68 4	2.47 4	¹⁴⁵ Ce(3.01 m)	724.33(59), 62.54(13.33), 1148.03(9.15)
1110.7 2	2.9 2	⁹⁴ Rh(70.6 s)	1430.50(100), 756.23(51), 1072.50(30.7)
1110.7 2	4.0 10	¹²⁹ Sn(2.23 m)	645.13(100), 80.5(6.6), 913.2(5.0)
1110.75 6	0.803 19	⁹⁸ Nb(51.3 m)	787.374(93), 722.645(73.8), 1168.830(17.8)
1110.8 3	0.077 11	¹¹¹ Sn(35.3 m)	1152.98(2.7), 1914.70(1.99), 761.97(1.48)
1110.8 4	2.7 5	¹⁷⁸ Re(13.2 m)	237.3(45), 105.9(23.0), 939.1(8.9)
1110.8 5	2.1 4	¹⁸¹ Os(105 m)	238.75(44), 826.77(20), 118.03(12.9)
1110.82 5	1.76 9	¹³³ Sb(2.5 m)	1096.22(43.0), 817.8(18.5), 2755(12.5)
1110.86 5	0.0151 6	¹²⁷ Cs(6.25 h)	411.95(62.8), 124.70(11.37), 462.31(5.07)
1110.9 2	0.086 9	¹³⁷ Pr(1.28 h)	836.7(1.8), 433.9(1.28), 514.0(1.08)
1110.9 4	0.022 6	¹³⁹ Cs(9.27 m)	1283.23(8.3), 627.24(1.78), 1420.66(0.91)
1110.9 5	†1.10 15	¹⁸² Ir(15 m)	273.23(†100), 126.79(†77), 236.3(†21.0)
1111.0 2	†1.44 19	⁹⁵ Pd(13.3 s)	1350.9(†105), 716.6(†70.63), 381.8(†50.8)
1111.0 3	0.29 7	¹¹⁹ Ag(2.1 s)	626.4(13), 366.2(12.1), 399.1(10.9)
1111.0 4	0.021 7	¹⁵¹ Nd(12.44 m)	116.80(43.4), 255.68(16.4), 1180.89(14.8)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
1111.0 10	0.26 9	¹⁵⁷ Tm(3.63 m)	455.00(9.3), 385.5(8.8), 348.40(8.4)
1111.04 10	1.44 13	¹⁹⁵ Hg(9.9 h)	779.80(7), 61.46(6.2), 585.13(1.99)
1111.10 10	3.12 11	⁹¹ Tc(3.14 m)	2450.90(13.5), 1639.90(9.2), 1605.20(7.77)
1111.13	5.0 5	¹⁷⁶ Tm(1.9 m)	189.57(44.5), 1069.3(34), 381.8(21.8)
1111.2 1	26.2 10	⁹³ Ru(10.8 s)	1396.2(39), 2039.1(9.2), 928.3(1.66)
1111.22	1.9 5	¹⁰⁵ Mo(35.6 s)	85.4(25.0), 76.50(19.3), 147.8(14.8)
• 1111.2 8	0.011 9	¹¹⁹ Te(4.70 d)	153.59(66), 1212.73(66), 270.53(28.0)
1111.34 3	1.47 12	²⁰⁴ Bi(11.22 h)	899.15(98), 374.72(82), 984.02(59)
• 1111.4 1	0.0136 19	¹²⁵ Sn(9.64 d)	1067.10(10), 1089.15(4.59), 822.48(4.28)
• 1111.40 18	0.015 4	¹⁵³ Tb(2.34 d)	212.038(31.0), 170.504(6.8), 109.758(6.4)
1111.49 24	0.49 6	⁹⁷ Rh(30.7 m)	421.55(75), 840.13(12.0), 878.80(9.0)
1111.5 5	†100 33	⁸⁵ As(2.028 s)	3749.4(†23), 461.5(†20), 3345.0(†14.2)
1111.5 2	0.16 5	⁹⁸ Nb(51.3 m)	787.374(93), 722.645(73.8), 1168.830(17.8)
1111.50 10	0.00108 9	²⁵⁰ Bk(3.217 h)	989.12(45), 1031.85(35.6), 1028.65(4.91)
1111.50 10	0.26 4	²⁵⁰ Es(2.22 h)	989.12(13.3), 1031.85(10.6), 828.82(5.5)
1111.57 25	0.33 3	¹⁵⁶ Ho(56 m)	266.35(54.7), 137.83(51), 366.25(10.73)
1111.6 4	2.07 15	¹⁷⁰ Ho(2.76 m)	258.2(37.0), 931.3(36.1), 181.6(23.8)
1111.64 5	0.191 8	¹²⁹ Te(69.6 m)	27.81(16.3), 459.60(7.70), 487.39(1.42)
1111.7	0.014 7	¹⁴⁹ Tb(4.118 h)	352.24(29.43), 164.98(26.4), 388.57(18.37)
1111.8 3	0.73 8	²³⁰ Fr(19.1 s)	711.0(13.6), 129.1(11.0), 728.4(7.3)
1111.82 20	0.24 8	²⁰² Bi(1.72 h)	960.67(99), 422.18(83.7), 657.49(60.6)
1111.88 70	0.08 4	¹⁴¹ Xe(1.73 s)	909.23(24.0), 118.705(16.1), 105.937(9.8)
1111.9 3	0.58 12	⁹⁸ Pd(17.7 m)	112.0(58), 662.2(19.7), 106.75(13.9)
1111.9 5	0.06 3	⁹⁹ Nb(2.6 m)	97.785(7), 253.50(3.64), 2641.3(3.64)
1111.9 4	0.0022 10	¹³³ La(3.912 h)	278.835(2.50), 302.353(1.648), 290.06(1.413)
1111.9 5	0.054 7	²⁴⁵ Pu(10.5 h)	327.428(25.4), 560.13(5.4), 308.222(4.9)
1112.0 2	1.5 4	¹¹⁸ Cs(14 s)	337.4(100), 472.8(37.4), 586.6(15.4)
1112.0 8	0.10 4	¹⁶¹ Tm(33 m)	45.54(5.00), 1648.1(9.50), 84.40(9.4)
1112.0 3	0.132 13	¹⁸⁶ Hg(1.38 m)	112.1(63), 251.5(55), 191.6(3.7)
1112	†2	²³⁸ Pa(2.3 m)	1015.3(†<100), 1014.6(†<100), 635.18(†88)
1112.1 13	0.10 4	¹⁶⁷ Lu(51.5 m)	29.66(14.4), 239.22(8.6), 213.19(3.6)
1112.1 2	†0.9 2	¹⁷² Ir(2.0 s)	227.8(†100.0), 378.4(†62.0), 448.4(†40.5)
1112.116 170.033 8		¹⁵² Pm(4.1 m)	121.7824(15.7), 841.586(2.17), 961.06(1.92)
1112.116 174.0 3		¹⁵² Pm(7.52 m)	244.6989(78), 121.7824(45), 340.48(31.3)
• 1112.116 1713.55 19		¹⁵² Eu(13.542 y)	121.7824(28.4), 1408.011(20.87), 964.131(14.34)
1112.14 8	0.508 25	¹⁸⁷ Ir(10.5 h)	912.95(4.79), 427.12(4.12), 400.89(3.94)
1112.20 15	0.0018 5	¹⁶¹ Gd(3.66 m)	360.94(0.59), 314.92(22.7), 102.315(13.9)
1112.2 14	0.024 11	¹⁷⁴ Ta(1.05 h)	206.50(58), 91.00(16.0), 1205.92(4.9)
1112.2 6	0.7	²⁰³ Bi(11.76 h)	820.3(30), 825.2(14.6), 896.9(13)
1112.30 20	0.71 5	⁸⁸ Nb(7.8 m)	1057.01(89.3), 1082.53(53.9), 399.41(45.7)
1112.4 1	0.154 16	¹⁰⁷ Ru(3.75 m)	194.05(9.9), 847.93(5.3), 462.61(3.66)
1112.4 2	0.0093 17	¹²¹ I(2.12 h)	212.189(84), 532.08(6.07), 598.74(1.47)
1112.4 4	0.065 15	¹³² I(2.295 h)	667.718(99), 772.60(75.6), 954.55(17.6)
1112.4 5	0.0028 14	¹⁵¹ Tb(17.609 h)	287.357(28.3), 251.863(26.3), 108.088(24.3)
1112.5 2	†1.27 14	¹⁶⁰ Ho(5.02 h)	728.18(†100), 879.383(†65.9), 962.317(†59.1)
1112.6 5	3.7 17	⁵⁷ Cu(199.4 ms)	
1112.6 3	0.072 12	¹⁴⁷ Pr(13.4 m)	77.9921(15), 314.675(13.2), 641.380(10.0)
1112.6 3	0.22 3	¹⁸¹ Au(11.4 s)	198.60(4.4), 2022.4(4.2), 79.40(4.2)
1112.6 2	†7.1 1	²⁰³ At(7.4 m)	639.4(†100), 641.5(†55.8), 738.1(†38.4)
1112.7 3	1.1 4	¹²⁰ In(47.3 s)	1171.3(100), 1023.1(97.4), 197.3(80.6)
• 1112.7 3	0.821 10	¹²⁰ Sb(5.76 d)	1171.3(100), 1023.1(99.4), 197.3(87.0)
1112.7	1.0	¹²⁵ Cd(0.65 s)	436.29(37), 1099.48(22.3), 2147.19(19.1)
1112.7 4	2 1	¹²⁸ Sb(9.01 h)	753.82(100), 743.22(100), 314.12(61)
1112.7 3	0.040 4	¹⁸³ Hf(1.067 h)	783.754(66), 73.174(38), 459.069(27)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
1112.7 3	0.18 3	¹⁸³ Ir(58 m)	392.52(10.4), 228.70(6.9), 87.67(5.6)
• 1112.8 5	0.07 3	⁷⁹ Kr(35.04 h)	261.29(13), 397.54(9.3), 606.09(8.12)
1112.84 7	†3.03 17	¹⁰² Tc(4.35 m)	475.070(†115), 628.05(†35.3), 631.28(†21.3)
• 1112.84 7	19.0 10	¹⁰² Rh(2.9 y)	475.070(95), 631.28(55.9), 697.49(43.9)
1112.9 1	0.87 6	⁷⁵ Zn(10.2 s)	228.67(28.9), 432.29(20.2), 155.94(17.2)
1112.9 5	0.05 5	¹⁴² La(91.1 m)	641.285(47), 2397.8(13.3), 2542.7(10.00)
1112.9 2	0.051 5	¹⁷⁶ Ta(8.09 h)	1159.28(25), 88.34(12), 1224.93(6)
1112.92 5	0.009 3	¹⁸³ Os(13.0 h)	381.768(89.6), 114.463(20.63), 167.844(8.81)
1113.0 4	0.29 3	⁷³ Zn(23.5 s)	218.1(6.00), 910.5(1.91), 495.6(1.48)
1113 1	0.21 11	¹⁶⁴ Tb(3.0 m)	168.838(25.4), 754.80(23.3), 215.07(21)
1113.0	†1.62 8	¹⁹² Tl(9.6 m)	422.8(†100), 634.8(†75.9), 786.3(†31.7)
1113.0 2	†4.86 26	¹⁹² Tl(9.6 m)	422.8(†100), 634.8(†75.9), 786.3(†31.7)
1113	†4	²³⁸ Pa(2.3 m)	1015.3(†<100), 1014.6(†<100), 635.18(†88)
1113.05 20	0.044 9	⁸⁷ Br(55.60 s)	1419.71(22.0), 1476.04(7.9), 1577.60(6.0)
• 1113.05 5	1.65 8	¹⁷² Lu(6.70 d)	1093.657(62.5), 900.724(29.8), 181.528(20.6)
1113.08 7	1.93 9	¹³³ Sb(2.5 m)	1096.22(43.0), 817.8(18.5), 2755(12.5)
1113.10 10	14.7 12	⁸³ As(13.4 s)	734.60(43), 2076.70(11.9), 2202.90(9.5)
1113.1 3	1.56 15	¹²³ Xe(2.08 h)	148.9(49), 178.1(14.9), 330.2(8.6)
• 1113.10 20	0.101 5	¹⁷⁰ Lu(2.00 d)	84.2551(4.256), 1280.25(3.450), 2041.88(1.434)
1113.2 1	1.38 9	¹⁰⁹ Ru(34.5 s)	206.29(22.0), 225.98(19.6), 1929.05(13.7)
1113.2 5	0.6 5	¹²⁵ Cd(0.57 s)	1027.53(25.8), 1173.16(25.1), 736.65(12.6)
1113.2 2	0.018 3	²⁴⁰ Np(7.22 m)	554.60(20.9), 597.40(11.7), 1496.9(1.33)
1113.3 5	0.14 4	¹²¹ Xe(40.1 m)	252.7(13), 132.8(10.9), 445.2(7.7)
• 1113.390 180.446 5	180.446 5	¹⁸² Ta(114.43 d)	67.75001(41.2), 1121.3007(34.9), 1221.4066(26.98)
1113.390 180.35 6	180.35 6	¹⁸² Re(12.7 h)	67.75001(38.2), 1121.3007(32), 1221.4066(24.8)
• 1113.390 184.7 1	184.7 1	¹⁸² Re(64.0 h)	229.3220(26), 67.75001(22.2), 1121.3007(22.0)
1113.4 5	0.104 24	¹⁰⁷ In(32.4 m)	204.97(47), 505.51(11.9), 320.92(10.2)
1113.4 4	0.074 19	¹⁵⁸ Tm(3.98 m)	192.13(62), 335.10(16.8), 1149.83(7.6)
1113.49 10	0.0053 8	¹⁶¹ Gd(3.66 m)	360.94(0.59), 314.92(22.7), 102.315(13.9)
1113.5 3	0.0490 14	¹⁶³ Er(75.0 m)	436.1(0.0285), 439.94(0.0276), 297.88(0.012)
1113.5	†0.6	¹⁹³ Pb(5.8 m)	365.2(†100), 392.2(†20.7), 716.4(†6.7)
1113.6 10	0.04 3	¹⁴⁰ Cs(63.7 s)	602.345(71.1), 908.25(11.6), 1200.25(6.39)
1113.6 4	0.40 4	¹⁹⁰ Re(3.2 h)	186.718(27.8), 605.24(14.9), 557.972(14.3)
1113.6 1	0.25 3	¹⁹¹ Au(3.18 h)	586.45(17), 277.88(7.2), 674.19(6.8)
1113.6 2	0.0067 12	²⁴⁶ Am(25.0 m)	1078.86(27.7), 798.80(25), 1062.04(17.1)
1113.7 1	0.055 4	¹¹⁹ I(19.1 m)	257.52(87), 635.86(2.69), 320.53(2.17)
1113.8 10	†3.7	¹⁷⁷ Os(2.8 m)	84.7(†100), 125.4(†63), 195.8(†61)
1113.85 24	0.064 12	¹⁹² Au(4.94 h)	316.50791(58.0), 295.95827(22.3), 2236.89(5.6)
1113.9 5	0.091 20	¹⁶³ Yb(11.05 m)	860.28(10.1), 63.62(6.5), 123.21(1.98)
1113.9 5	0.189 21	¹⁸⁷ Au(8.4 m)	1331.81(7.0), 1408.23(3.06), 914.73(3.02)
• 1113.92 3	0.0222 22	¹⁴⁸ Pm(5.370 d)	1465.12(22), 550.284(22.00), 914.85(11.46)
• 1113.92 3	0.137 4	¹⁴⁸ Eu(54.5 d)	550.284(98.5), 629.987(71.9), 611.293(20.5)
1114.1 3	21.8 22	⁷⁰ As(52.6 m)	1039.20(81), 668.3(21.8), 743.56(21.5)
• 1114.1 3	0.015 5	¹³¹ Te(30 h)	773.67(49.9), 852.21(27.0), 793.75(18.10)
1114.1 2	0.028 3	¹⁵¹ Tb(17.609 h)	287.357(28.3), 251.863(26.3), 108.088(24.3)
1114.11 30	0.10 3	¹⁹⁵ Tl(1.16 h)	563.52(10.5), 884.47(10.0), 1363.88(8.4)
1114.2 1	0.50	¹⁷⁶ Ta(8.09 h)	1159.28(25), 88.34(12), 1224.93(6)
1114.29 10	1.47 7	¹³⁸ Xe(14.08 m)	258.411(31.5), 434.562(20.3), 1768.26(16.7)
1114.3 4	39 4	¹²⁷ Sn(2.10 h)	1095.6(20), 823.1(10.9), 805.9(8.4)
1114.3 3	2.67 10	¹⁵¹ Dy(17.9 m)	386.10(19.4), 49.46(18.0), 546.31(14.3)
1114.32 6	0.092 6	¹³⁷ Xe(3.818 m)	455.490(31), 848.95(0.62), 1783.43(0.415)
1114.4 4	0.10 4	¹⁴² Ba(10.6 m)	255.300(20.5), 1204.3(14.23), 895.2(13.9)
1114.4 6	0.30 5	¹⁷⁵ Ta(10.5 h)	207.4(14.0), 348.5(12.0), 266.9(10.8)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
1114.48 5	0.0118 18	¹⁰⁶ Rh(29.80 s)	511.842(20), 621.94(9.93), 1050.39(1.56)
1114.48 5	0.0062 5	¹⁰⁶ Ag(23.96 m)	511.842(17.0), 621.94(0.316), 873.48(0.199)
• 1114.49 14	0.295 18	²⁰⁶ Po(8.8 d)	1032.26(32.9), 511.36(24.1), 286.410(23.8)
1114.5 2	†2.12 21	¹⁸⁵ Hg(21.6 s)	222.8(†100.0), 258.7(†98), 212.5(†58)
1114.51 19	0.53 6	¹⁰³ Cd(7.3 m)	1461.81(12), 1448.70(5.55), 1079.90(5.44)
1114.6	1.8	⁹⁶ Y(9.6 s)	1750.42(89), 915.0(60), 617.1(56)
1114.60 33	†1.7 5	¹⁶⁵ Lu(10.74 m)	132.49(†100), 120.60(†100), 174.25(†47.0)
1114.7	2.2	⁴⁴ Ar(11.87 m)	182.6(66), 1703.4(57), 1886.0(31)
1114.7 1	0.19 3	¹⁵⁷ Er(18.65 m)	53.05(24), 391.32(14.2), 121.57(10.1)
1114.70 25	0.98 15	¹⁸⁶ Ir(2.0 h)	137.155(27), 767.508(21.2), 630.354(18.0)
1114.72 8	0.166 16	²⁰¹ Pb(9.33 h)	331.19(79), 361.27(9.9), 945.96(7.4)
1114.80 5	0.103 4	⁷⁷ Ge(11.30 h)	264.44(54), 211.03(30.8), 215.50(28.6)
1114.8 1	0.134 11	¹³⁹ Xe(39.68 s)	218.59(56), 296.53(21.7), 174.97(11.3)
1114.8	0.38	¹⁴⁹ Ho(21.1 s)	1090.7(74.8), 1073.2(6.37), 1583.6(4.48)
1114.8 4	0.055 17	¹⁶¹ Er(3.21 h)	826.6(3.0), 211.15(12.2), 592.6(3.7)
1114.8 6	0.055 17	¹⁶¹ Er(3.21 h)	826.6(3.0), 211.15(12.2), 592.6(3.7)
1114.9 2	0.14 3	¹⁴⁶ La(6.27 s)	258.47(64), 924.58(7.45), 702.28(6.43)
1115.0 5	0.063 19	⁸³ Y(7.08 m)	35.50(0.44), 882.1(6.30), 489.90(5.53)
1115.0 5	0.050 13	¹²¹ Xe(40.1 m)	252.7(13), 132.8(10.9), 445.2(7.7)
1115.0 8	0.23 13	¹²¹ Cs(155 s)	153.9(15.2), 239.6(7.7), 427.1(3.63)
1115.0 8	0.18 10	¹²¹ Cs(122 s)	179.4(30.2), 196.0(24.1), 459.7(12.0)
1115.0 1	0.17 3	¹³⁹ Xe(39.68 s)	218.59(56), 296.53(21.7), 174.97(11.3)
1115.0 9	0.50	¹⁷⁶ Ta(8.09 h)	1159.28(25), 88.34(12), 1224.93(6)
1115.07 11	1.0 3	¹⁶⁴ Lu(3.14 m)	123.3(34.0), 740.52(12.2), 262.22(10.8)
1115.073 160.0023		²⁰⁷ At(1.80 h)	814.41(44.5), 588.33(19.2), 300.654(12.8)
• 1115.1 3	0.37 4	⁷⁹ Kr(35.04 h)	261.29(13), 397.54(9.3), 606.09(8.12)
1115.1 4	0.63 6	¹⁹⁹ Pb(90 m)	366.90(44.2), 353.39(9.5), 1135.04(7.8)
• 1115.12 3	1.576 9	¹⁶⁰ Tb(72.3 d)	879.383(30.01), 298.580(25.51), 966.171(25.21)
1115.12 3	†1.05 14	¹⁶⁰ Ho(5.02 h)	728.18(†100), 879.383(†65.9), 962.317(†59.1)
1115.16 24	0.79 7	¹⁰⁵ In(5.07 m)	131.37(41), 260.21(15.7), 604.11(9.2)
1115.18 3	4.82 22	¹³³ Sb(2.5 m)	1096.22(43.0), 817.8(18.5), 2755(12.5)
1115.2 3	0.54 22	¹⁰⁴ In(1.8 m)	658.0(100), 834.1(99), 878.1(29.4)
1115.2	>0.41	¹⁵⁵ Dy(9.9 h)	226.918(68.4), 184.564(3.37), 1089.8(>2.8)
1115.2 4	0.13 5	¹⁷⁷ W(135 m)	115.65(50), 426.98(13.2), 1036.4(10.3)
1115.20 2	4.8 3	²⁰⁷ At(1.80 h)	814.41(44.5), 588.33(19.2), 300.654(12.8)
1115.25 12	1.37 11	¹⁴⁶ Cs(0.343 s)	181.02(57.0), 557.76(9.18), 332.38(6.44)
1115.25 5	†4.98 19	¹⁸⁸ Au(8.84 m)	265.63(†100), 340.04(†23.9), 605.5(†16.3)
1115.3 5	0.49 9	⁶⁷ Ni(21 s)	1937.1(0.64), 821.6(0.47), 2841(0.27)
1115.3 6	2.1 9	¹¹⁵ Te(6.7 m)	770.40(34.2), 723.569(18), 1071.70(12.9)
1115.3 1	†6.8 5	¹⁶⁰ Lu(36.1 s)	243.2(†100), 395.4(†21.0), 577.2(†10.7)
• 1115.35 26	0.015 6	¹⁵⁰ Eu(35.8 y)	333.971(96), 439.401(80.4), 584.274(52.6)
1115.36 20	0.25 4	¹²⁶ In(1.60 s)	1141.11(55.9), 3344.61(21.6), 969.61(14.9)
1115.4 3	0.061 10	¹⁵¹ Nd(12.44 m)	116.80(43.4), 255.68(16.4), 1180.89(14.8)
1115.4 3	†1.14 24	¹⁸⁹ Hg(7.6 m)	320.99(†100), 78.21(†63), 565.42(†48)
1115.5 2	†0.95 11	¹²⁹ Ba(2.17 h)	182.30(†100), 1459.1(†50.0), 202.38(†33.7)
1115.5	†2	¹³¹ Ce(10.3 m)	169.42(†100), 414.25(†68), 119.18(†44)
1115.5 3	0.09 5	²¹¹ Rn(14.6 h)	674.1(45), 1362.9(32.5), 678.4(28.9)
1115.53 15	0.019 6	¹⁵⁷ Eu(15.18 h)	63.929(23.0), 410.723(17.5), 370.509(11.0)
• 1115.54 5	0.37 3	¹⁷² Lu(6.70 d)	1093.657(62.5), 900.724(29.8), 181.528(20.6)
1115.546 4	15.43 9	⁶⁵ Ni(2.5172 h)	1481.84(24), 366.27(4.81), 1623.42(0.498)
• 1115.546 4	50.60 24	⁶⁵ Zn(244.26 d)	344.95(0.0030), 770.6(0.0030)
1115.7 2	1.25 18	¹¹⁹ Cd(2.69 m)	292.9(36.8), 343.0(16.9), 1609.7(10.9)
1115.77 22	0.094 14	⁹³ Rb(5.84 s)	432.61(17.4), 986.05(6.8), 213.429(6.7)
• 1115.78 7	0.050 5	¹⁵⁶ Eu(15.19 d)	811.79(9.70), 88.9667(8.4), 1230.68(7.98)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
1115.8 7	0.030 7	⁸⁵ Y(4.86 h)	231.67(22.8), 2123.8(5.0), 767.40(3.6)
1115.8 3	0.103 19	⁹² Kr(1.840 s)	142.307(64), 1218.6(60), 812.6(14.6)
1115.8 2	3.4 6	¹⁰⁰ Ag(2.01 m)	665.54(99), 750.67(78), 773.20(24.2)
1115.8 2	9 3	¹⁰⁰ Ag(2.24 m)	665.54(86), 750.67(>26), 1693.9(14.7)
1115.8 3	0.45 9	¹⁶⁰ Tm(74.5 s)	264.1(9), 125.8(6.5), 375.8(2.4)
1115.8 9	0.022 7	¹⁸⁴ Ta(8.7 h)	414.03(72), 252.848(43), 920.932(32.0)
1115.9 2	1.10 10	¹¹¹ Pd(5.5 h)	70.44(8.3), 391.25(5.4), 632.80(3.6)
1115.9 2	0.069 9	¹¹⁹ I(19.1 m)	257.52(87), 635.86(2.69), 320.53(2.17)
1115.9 20	0.022 16	¹⁶³ Yb(11.05 m)	860.28(10.1), 63.62(6.5), 123.21(1.98)
1115.96 25	0.23 4	¹⁶² Tm(21.70 m)	102.00(17.5), 798.68(8.4), 227.52(7)
1116.0 4	2.8 4	⁸⁰ Ge(29.5 s)	265.36(27.0), 110.4(6.5), 1564.3(4.9)
1116.0 5	0.23	¹⁴⁰ Sm(14.82 m)	225.5(>10), 225.4(10), 140.0(5.0)
1116.0 10	0.0010 6	¹⁵² Eu(9.274 h)	344.281(2.44), 1314.67(0.956), 970.38(0.604)
1116.22 93	0.06 3	¹⁴¹ Xe(1.73 s)	909.23(24.0), 118.705(16.1), 105.937(9.8)
1116.30 10	0.70 5	⁸³ Se(70.1 s)	1030.86(21.2), 356.687(18), 987.96(16.1)
1116.3	0.013	¹⁴⁷ Tb(1.83 m)	1397.0(79), 1797.1(14), 1643.0(1.2)
1116.4 1	†3.5 4	¹⁴⁴ Cs(1.01 s)	199.326(†100.0), 639.00(†21.2), 758.96(†20.6)
1116.42 16	0.068 9	¹¹⁸ In(4.45 m)	1229.68(96), 1050.69(81.0), 683.08(54.3)
1116.48 5	1.05 8	¹⁵⁸ Eu(45.9 m)	944.09(25), 977.131(13.6), 79.5104(11)
• 1116.57 3	0.422 18	¹⁴⁶ Eu(4.59 d)	747.2(98), 633.03(43), 634.07(37)
1116.6 3	0.20 3	⁷⁷ Zn(2.08 s)	189.49(28.1), 473.94(19.7), 1832.0(12.4)
1116.60 5	1.03 6	¹¹⁷ Cd(2.49 h)	273.349(28), 1303.27(18.4), 344.459(17.9)
1116.61 7	1.67 10	⁸⁹ Kr(3.15 m)	220.948(20.1), 586.03(16.6), 904.27(7.2)
1116.61 17	0.133 12	¹⁹² Au(4.94 h)	316.50791(58.0), 295.95827(22.3), 2236.89(5.6)
1116.63 5	1.20 8	⁸¹ Ga(1.221 s)	216.47(37.4), 828.26(22.1), 711.18(17.6)
1116.65 3	1.955 15	¹⁴³ Ba(14.33 s)	211.475(25), 798.79(15.6), 980.45(11.55)
1116.7 1	2.8 7	¹²⁹ Sn(2.23 m)	645.13(100), 80.5(6.6), 913.2(5.0)
1116.7 8	†0.08	¹⁹⁶ Ir(1.40 h)	393.346(†105.2), 521.175(†104), 447.1(†102.1)
1116.71 32	0.09 3	¹³⁷ Nd(38.5 m)	75.5(17.0), 580.6(13), 306.60(10.0)
1116.77 10	15.5 15	¹²⁴ In(2.4 s)	1131.64(100), 969.94(52), 1072.85(47)
1116.77 15	0.131 10	¹⁴¹ Cs(24.94 s)	48.53(7.90), 561.63(4.7), 1194.02(3.95)
1116.86 10	†1.3 1	¹⁸⁴ Ir(3.09 h)	263.97(†100), 119.80(†45), 390.38(†38)
1116.88 12	0.086 8	⁹⁷ Nb(72.1 m)	658.08(98), 1024.49(1.09), 1268.68(0.148)
1116.9 3		¹⁴⁴ Cs(1.01 s)	199.326(†100.0), 639.00(†21.2), 758.96(†20.6)
1117.0 5	0.044 7	⁷⁹ Rb(22.9 m)	688.1(23), 182.77(19.2), 143.41(13.9)
1117.0 4	3.01 13	⁸⁶ Se(15.3 s)	2441.1(43.0), 2660.0(21.6), 48.3(15.4)
1117.0	†1.5 6	¹³¹ Pr(1.53 m)	266.13(†100), 72.82(†64), 387.56(†38)
1117.0	>0.41	¹⁵⁵ Dy(9.9 h)	226.918(68.4), 184.564(3.37), 1089.8(>2.8)
1117.0 5	2.7 7	¹⁷⁶ Re(5.3 m)	240.17(48), 109.08(25.0), 848.7(4.0)
1117 1	0.32	¹⁸¹ Au(11.4 s)	198.60(4.4), 2022.4(4.2), 79.40(4.2)
1117.0 10	0.13 3	²²⁶ Fr(48 s)	253.73(22.3), 186.05(16.3), 253.9(2.5)
1117.01 20	4.4 9	⁸⁰ Zn(0.545 s)	712.53(45.1), 715.40(33.8), 964.93(15.6)
1117.1 7	0.07 3	⁹³ Sr(7.423 m)	590.238(67), 875.73(24.1), 888.13(21.8)
1117.1 2	0.07 3	⁹⁸ Nb(51.3 m)	787.374(93), 722.645(73.8), 1168.830(17.8)
1117.1 3	0.74 6	⁹⁹ Sr(0.269 s)	125.118(16.1), 536.12(14.0), 1198.12(9.2)
1117.15 14	0.00119 20	¹⁶¹ Gd(3.66 m)	360.94(0.59), 314.92(22.7), 102.315(13.9)
1117.2 10	0.22 11	⁹⁷ Rh(46.2 m)	189.21(49), 2245.6(14), 421.55(12.7)
1117.297 100.622 19		¹⁸⁰ Re(2.44 m)	902.795(90), 103.557(22.2), 825.357(9.9)
1117.3 4	0.026 9	¹¹⁹ I(19.1 m)	257.52(87), 635.86(2.69), 320.53(2.17)
1117.3 5	0.47 12	¹⁶¹ Yb(4.2 m)	78.20(34), 599.88(25.9), 631.45(13.9)
1117.34 4	0.073 5	¹⁸³ Os(13.0 h)	381.768(89.6), 114.463(20.63), 167.844(8.81)
1117.4	0.11	¹⁴⁴ Tb(4.25 s)	743.0(12), 1001.6(7), 959.36(4.7)
1117.4 5	0.74 19	¹⁵⁷ Tm(3.63 m)	455.00(9.3), 385.5(8.8), 348.40(8.4)
1117.4 2	0.17 3	²⁰² Bi(1.72 h)	960.67(99), 422.18(83.7), 657.49(60.6)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
• 1117.437	100.039 6	¹¹⁰ Ag(249.79 d)	657.7622(94.0), 884.685(72.2), 937.493(34.13)
1117.437	104.23 10	¹¹⁰ In(4.9 h)	657.7622(98.3), 884.685(92.9), 937.493(68.4)
1117.5	0.106 18	¹⁴⁹ Tb(4.118 h)	352.24(29.43), 164.98(26.4), 388.57(18.37)
1117.5 7	0.15 6	¹⁶¹ Tm(33 m)	45.54(5.00), 1648.1(9.50), 84.40(9.4)
1117.56 6	9.9 5	⁷⁹ Ge(39.0 s)	230.62(61), 542.27(32.6), 755(18)
1117.6 2	3.23 24	¹⁴¹ Sm(22.6 m)	196.88(74), 431.6(40.4), 777.6(20.3)
• 1117.61 20	0.030 9	¹⁶⁹ Lu(34.06 h)	960.622(23.4), 191.2137(20.6), 1449.74(9.92)
1117.64 3	0.056 8	²²⁸ Ac(6.15 h)	911.205(26.6), 968.971(16.2), 338.322(11.3)
1117.66 10	3.21 25	¹⁹⁷ Pb(43 m)	385.85(74), 387.72(25.1), 222.45(24.6)
1117.7 5	>0.047	¹⁴² La(91.1 m)	641.285(47), 2397.8(13.3), 2542.7(10.00)
1117.74 10	0.201 20	¹⁶⁵ Yb(9.9 m)	80.11(49), 68.86(9.1), 1090.28(4.4)
1117.75 24		¹⁵⁷ Pm(10.56 s)	160.61(35), 188.052(13.5), 571.27(5.39)
1117.8 4	0.054 9	¹²⁰ Xe(40 m)	25.1(30), 72.6(9), 178.1(6.8)
1117.8 4	†0.7 2	¹³⁸ Pm(3.24 m)	520.9(†100), 729.0(†37.8), 493.1(†21.6)
1117.82 4	0.032 4	⁶¹ Cu(3.333 h)	282.956(12.2), 656.008(10.77), 67.412(4.23)
1117.9 3	0.212 24	¹⁶¹ Er(3.21 h)	826.6(3.0), 211.15(12.2), 592.6(3.7)
• 1117.94 3	0.052 7	¹⁷² Tm(63.6 h)	78.7435(6.5), 1093.657(6.0), 1387.093(5.6)
1118.0	1.3	⁹⁶ Y(9.6 s)	1750.42(89), 915.0(60), 617.1(56)
1118.0 2	4.7 6	¹⁰⁸ Tc(5.17 s)	242.25(82), 465.6(14.3), 707.81(11.4)
1118 1	0.0032 8	¹²⁸ Cs(3.66 m)	442.901(26.8), 526.557(2.41), 1140.079(1.168)
1118.0 5	†12 6	¹³¹ Nd(27 s)	87.8(†100), 174.42(†34), 164.09(†25)
1118	†0.07 1	¹³⁶ Pm(107 s)	373.8(†100), 602.7(†38.4), 857.2(†23.4)
1118.0 1	0.013 3	¹⁴¹ Pm(20.90 m)	1223.26(4.74), 886.22(2.44), 193.68(1.61)
• 1118.0 5		¹⁴⁶ Eu(4.59 d)	747.2(98), 633.03(43), 634.07(37)
1118.0 6	†5.9 10	¹⁸² Ir(15 m)	273.23(†100), 126.79(†77), 236.3(†21.0)
1118.1 5	3.3 3	⁷⁰ As(52.6 m)	1039.20(81), 1114.1(21.8), 668.3(21.8)
1118.1 1	1.10 17	¹⁰⁷ Tc(21.2 s)	102.70(21.0), 177.00(9.2), 106.31(7.6)
1118.174	180.0250 17	¹⁷³ Hf(23.6 h)	123.672(83), 296.974(33.9), 139.634(12.7)
1118.2 5	0.36 5	⁸⁵ Zr(7.86 m)	454.20(45), 416.3(27.0), 1198.4(4.8)
1118.2 3	0.059 10	¹⁵¹ Nd(12.44 m)	116.80(43.4), 255.68(16.4), 1180.89(14.8)
1118.2 3	0.015 15	¹⁵¹ Nd(12.44 m)	116.80(43.4), 255.68(16.4), 1180.89(14.8)
1118.2 3	0.082 24	¹⁵³ Dy(6.4 h)	80.723(11.10), 213.754(10.90), 99.659(10.51)
1118.2 3	0.176 20	²³⁸ Am(98 m)	962.77(28), 918.69(23.0), 561.11(10.9)
• 1118.2 3	1.7×10^{-7}	¹² ²⁴² Cm(162.8 d)	44.08(0.0325), 101.90(0.0025), 157.42(0.0014)
• 1118.233	160.109 14	¹⁵⁴ Eu(8.593 y)	123.071(40.79), 1274.436(35.19), 723.304(20.22)
1118.233	160.53 12	¹⁵⁴ Tb(9.4 h)	123.071(30), 247.925(22.1), 540.18(20)
1118.233	162.41 21	¹⁵⁴ Tb(21.5 h)	123.071(26), 1274.436(10.5), 2187.10(9.9)
1118.25 8	0.41 4	²⁰⁷ At(1.80 h)	814.41(44.5), 588.33(19.2), 300.654(12.8)
1118.4 10	0.20 4	⁹⁹ Rh(4.7 h)	340.71(70), 617.8(12.0), 1261.2(11)
1118.4 5	0.8 2	¹⁷⁵ Ta(10.5 h)	207.4(14.0), 348.5(12.0), 266.9(10.8)
1118.4 8	†179 36	¹⁷⁷ Re(14 m)	196.85(†1200), 79.65(†1010), 84.3(†890)
1118.44 10	0.63 8	¹⁹⁴ Pb(12.0 m)	581.82(18.8), 1519.45(16.4), 203.82(16.2)
• 1118.54 10	0.051 4	¹⁵³ Tb(2.34 d)	212.038(31.0), 170.504(6.8), 109.758(6.4)
1118.6 5	0.11 4	¹⁴² Cs(1.70 s)	359.598(27.2), 1326.46(12.92), 966.89(9.0)
1118.6 6	0.044 6	²²⁸ Pa(22 h)	911.205(4.19), 463.005(1.250), 964.770(4.25)
1118.69 5	39.0 9	⁹⁰ Kr(32.32 s)	121.82(35.5), 539.49(30.8), 242.19(9.9)
1118.7 3	0.24 6	⁹² Ru(3.65 m)	213.81(96), 259.32(92), 134.57(65.5)
• 1118.77 13	0.0082 14	¹⁶⁵ Tm(30.06 h)	242.917(35.5), 47.155(16.9), 297.369(12.71)
1118.8 10	†4.2 8	¹⁸¹ Os(2.7 m)	144.99(†100), 118.03(†28.3), 1468.0(†1.3)
1118.818	180.153 5	¹⁸³ Os(13.0 h)	381.768(89.6), 114.463(20.63), 167.844(8.81)
1118.82 7	1.14 6	¹⁴⁸ Ba(0.607 s)	56.08(29.20), 133.53(3.88), 415.78(3.59)
1118.84 17	†64 9	¹⁹³ Hg(3.80 h)	861.11(†100), 789.21(†36), 580.97(†32)
1118.88 88	†4 3	¹⁶⁴ Tm(2.0 m)	91.40(†1500), 1154.66(†366), 768.91(†279)
• 1118.9 4	0.13 4	¹⁹⁴ Au(38.02 h)	328.455(60), 293.545(10.2), 1468.91(6.3)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
1118.9 5	0.040 10	²¹⁴ Bi(19.9 m)	609.312(44.8), 1764.494(15.36), 1120.287(14.80)
1119	>0.16	⁹⁹ Sr(0.269 s)	125.118(16.1), 536.12(14.0), 1198.12(9.2)
1119.0 3	0.54 24	¹⁰¹ Zr(2.1 s)	119.3(10.8), 205.6(6.0), 912.2(3.48)
1119.0 6	1.11 8	¹⁷⁰ Ta(6.76 m)	100.8(21.0), 221.2(15.7), 860.4(7.39)
1119 1	0.32	¹⁸¹ Au(11.4 s)	198.60(4.4), 2022.4(4.2), 79.40(4.2)
1119 1	0.051 21	²⁰⁹ Rn(28.5 m)	408.32(50.3), 745.78(22.8), 337.45(14.5)
• 1119.0 10	8.0×10^{-6} 8	²³³ U(1.592×10^5 y)	42.44(0.0862), 97.134(0.020), 54.699(0.0182)
1119.02 8	0.212 17	¹⁵³ Dy(6.4 h)	80.723(11.10), 213.754(10.90), 99.659(10.51)
1119.1 4	0.141 25	⁸⁴ Br(31.80 m)	881.610(42), 1897.761(14.7), 3927.5(6.8)
1119.1 3	0.53 11	¹¹⁷ Ag(72.8 s)	135.4(23), 337.7(10.3), 157.1(7.9)
1119.2 4	3.16 15	¹⁰⁹ Sn(18.0 m)	1099.4(30), 649.90(28.0), 1321.3(11.9)
1119.33 6	0.107 6	¹³⁷ Xe(3.818 m)	455.490(31), 848.95(0.62), 1783.43(0.415)
1119.4 3	0.45 7	¹⁰¹ Sr(118 ms)	128.34(18.0), 1124.82(10.9), 510.73(8.5)
1119.4 1	0.61 6	¹⁰⁴ Tc(18.3 m)	358.0(89), 530.5(15.6), 535.1(14.7)
• 1119.40 20	0.179 5	¹⁷⁰ Lu(2.00 d)	84.2551(4.256), 1280.25(3.450), 2041.88(1.434)
1119.4 1	0.062 7	²¹³ Bi(45.59 m)	440.46(26.1), 292.80(0.429), 807.36(0.292)
1119.5	0.13	¹⁶⁶ Tm(7.70 h)	778.817(18.9), 2052.36(17.2), 184.410(16.1)
1119.6 7	0.38 10	⁸⁹ Kr(3.15 m)	220.948(20.1), 586.03(16.6), 904.27(7.2)
1119.6 3	0.110 17	¹⁰³ Ag(65.7 m)	118.72(31.2), 148.193(28.3), 266.86(13.3)
1119.6 4	†5 2	¹¹⁴ Te(15.2 m)	90.28(†100), 83.8(†67), 1417.6(†32)
1119.6 5	0.24	¹⁴⁰ Sm(14.82 m)	225.5(>10), 225.4(10), 140.0(5.0)
1119.6 3	0.14 3	¹⁶² Tm(21.70 m)	102.00(17.5), 798.68(8.4), 227.52(7)
1119.68	0.017 12	⁴⁴ K(22.13 m)	1157.031(58), 2150.76(22.7), 2518.95(9.69)
1119.69 6	2.18 22	⁷¹ Zn(2.45 m)	511.56(32), 910.27(7.8), 389.88(3.8)
1119.7 5	1.68 20	⁸⁴ Y(40 m)	793.3(99), 974.6(75), 1040.2(56)
1119.70 20	0.061 9	¹⁰⁵ Cd(55.5 m)	961.84(4.69), 346.870(4.20), 1302.459(3.98)
1119.7 5	†2	¹³¹ Ce(10.3 m)	169.42(†100), 414.25(†68), 119.18(†44)
1119.7 2	0.55 3	¹⁷⁷ Yb(1.911 h)	150.392(20.3), 1080.21(5.6), 1241.2(3.47)
• 1119.780 130.245 14		¹⁷² Tm(63.6 h)	78.7435(6.5), 1093.657(6.0), 1387.093(5.6)
1119.8 2	0.46 6	⁷⁵ Zn(10.2 s)	228.67(28.9), 432.29(20.2), 155.94(17.2)
1119.9	0.11	⁴³ Ar(5.37 m)	975.0(34), 738.1(15), 1439.5(13)
1119.9 2	0.074 25	¹²⁹ La(11.6 m)	278.6(25), 110.5(16.9), 457.0(8.0)
1119.9 2	0.58 13	¹³⁷ Nd(38.5 m)	75.5(17.0), 580.6(13), 306.60(10.0)
1120.0 4	0.073 21	⁹³ Rb(5.84 s)	432.61(17.4), 986.05(6.8), 213.429(6.7)
1120.0 3	0.19 4	⁹⁵ Rb(377.5 ms)	352.02(49), 204.02(15.1), 680.7(14.8)
1120.0	0.11	⁹⁵ Sr(23.90 s)	685.6(23), 2717.3(4.6), 2933.1(4.1)
1120.0 10	0.024 4	¹⁰⁷ Rh(21.7 m)	302.77(66), 392.47(8.8), 312.21(4.8)
1120.0 3	>0.26	¹¹⁷ Cd(3.36 h)	1997.33(26), 1065.98(23.1), 564.397(14.7)
1120.0 4	0.23 8	¹²¹ Cs(122 s)	179.4(30.2), 196.0(24.1), 459.7(12.0)
• 1120	0.026 9	¹⁵⁶ Tb(5.35 d)	534.318(66.6), 199.2132(40.9), 1222.36(31.00)
• 1120		²¹⁰ Bi(3.04×10^6 y)	265.832(50), 304.896(28), 649.42(3.8)
1120.05 7	0.24 4	¹¹⁷ Cd(2.49 h)	273.349(28), 1303.27(18.4), 344.459(17.9)
1120.1 3	0.14 4	¹⁵⁰ Tb(3.48 h)	638.05(72), 496.3(14.8), 792.5(4.39)
1120.1 3	0.12 2	¹⁷⁹ Re(19.5 m)	430.221(28), 289.968(26.9), 1680.244(13.0)
1120.1 4	0.7	²⁰³ Bi(11.76 h)	820.3(30), 825.2(14.6), 896.9(13)
1120.11 5	0.075 10	¹⁵⁵ Dy(9.9 h)	226.918(68.4), 184.564(3.37), 1089.8(>2.8)
1120.14 5	0.0232 6	¹²⁷ Cs(6.25 h)	411.95(62.8), 124.70(11.37), 462.31(5.07)
1120.15 9	0.94 5	⁹⁵ Ru(1.643 h)	336.43(70.2), 1096.76(21.0), 626.77(17.8)
1120.19 15	0.072 9	⁸⁷ Br(55.60 s)	1419.71(22.0), 1476.04(7.9), 1577.60(6.0)
1120.2 1	1.86 16	¹³⁰ La(8.7 m)	357.4(81.0), 550.7(25.9), 908.0(17.0)
1120.2 5	0.057 11	¹⁵¹ Tb(17.609 h)	287.357(28.3), 251.863(26.3), 108.088(24.3)
1120.2 5	0.14 4	¹⁵⁹ Er(36 m)	624.5(33), 649.1(23.4), 205.92(9.7)
1120.287 1014.80 20		²¹⁴ Bi(19.9 m)	609.312(44.8), 1764.494(15.36), 1238.110(5.86)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
1120.3 15	>0.32	¹⁷⁵ Ta(10.5 h)	207.4(14.0), 348.5(12.0), 266.9(10.8)
• 1120.3 4	0.011 1	²⁴⁰ Am(50.8 h)	987.76(73.2), 888.80(25.1), 98.860(1.5)
• 1120.33 2	0.246 7	¹⁶⁶ Ho(1.20×10 ³ y)	184.410(72.6), 810.276(58.08), 711.683(55.32)
• 1120.387 9	0.183 5	¹⁴⁷ Eu(24.1 d)	197.299(27), 121.220(22.9), 677.516(9.8)
1120.4 2	0.07	¹¹¹ Pd(23.4 m)	580.00(0.8), 70.44(0.78), 1459.0(0.56)
1120.4 6	0.06	¹⁶⁷ Lu(51.5 m)	29.66(14.4), 239.22(8.6), 213.19(3.6)
1120.4 6	0.105 20	²⁰⁸ Rn(24.35 m)	426.78(7.07), 251.05(5.02), 350.026(3.34)
1120.41 8	0.95	¹⁵⁴ Pm(1.73 m)	2057.76(17.1), 1393.9(14.4), 81.99(12.6)
1120.42 25	0.028 17	⁶⁶ Ge(2.26 h)	43.89(28.7), 381.85(28), 272.97(10.4)
1120.42 10	0.11 7	²⁰⁵ Po(1.66 h)	872.39(37), 1001.21(28.8), 849.83(25.5)
1120.5 4	0.83 9	¹⁰⁴ Ag(69.2 m)	555.796(92.6), 767.72(65.7), 941.7(25.0)
1120.53	0.036 8	²⁰⁴ Bi(11.22 h)	899.15(98), 374.72(82), 984.02(59)
• 1120.545 4	99.987 1	⁴⁶ Sc(83.79 d)	889.277(99.984), 2010(0.000013)
1120.6 10	†1.8 7	¹⁹¹ Tl(5.22 m)	452.6(†100), 470.1(†98), 391.6(†96)
1120.6 8	†1.70×10 ³	²³⁴ Pa(1.17 m)	1001.03(†837000), 766.38(†294000), 742.81(†80000)
1120.8 3	0.33 9	⁷⁶ Rb(39.1 s)	2571.3(47), 424.0(43.4), 355.6(8.2)
1120.8 2	0.183 17	⁹⁴ Rb(2.702 s)	1309.1(87), 836.9(87.10), 1577.5(31.8)
1120.8 8	0.088 14	¹⁵⁰ Pm(2.68 h)	333.971(68), 1324.51(17.5), 1165.739(15.8)
1120.8 5	0.025 6	¹⁵¹ Tb(17.609 h)	287.357(28.3), 251.863(26.3), 108.088(24.3)
1120.833 240.0008 3		¹⁷⁹ Lu(4.59 h)	214.335(11.3), 214.930(0.46), 123.3790(0.45)
1120.89 10	0.054 5	¹³⁹ Cs(9.27 m)	1283.23(8.3), 627.24(1.78), 1420.66(0.91)
1120.92 10	0.0042 3	¹⁶¹ Gd(3.66 m)	360.94(0.59), 314.92(22.7), 102.315(13.9)
1120.95 13	0.49 13	¹⁸⁶ Ir(16.64 h)	296.911(64.0), 137.155(42), 434.849(34.4)
1121 1	0.32	¹⁸¹ Au(11.4 s)	198.60(4.4), 2022.4(4.2), 79.40(4.2)
1121.00 7	1.50 8	¹⁹⁹ Pb(90 m)	366.90(44.2), 353.39(9.5), 1135.04(7.8)
1121.1 2	0.069 17	¹¹⁹ I(19.1 m)	257.52(87), 635.86(2.69), 320.53(2.17)
1121.1 1	0.67 7	¹⁴¹ Xe(1.73 s)	909.23(24.0), 118.705(16.1), 105.937(9.8)
1121.1 4	0.14 3	¹⁹⁸ Tl(5.3 h)	411.8044(82), 675.8874(11), 636.4(10.1)
1121.1 7	0.46 4	¹⁹⁹ Bi(27 m)	560.1(22.0), 424.85(22), 841.7(11)
1121.1 5	0.23 9	²⁰⁷ Rn(9.25 m)	344.53(46), 747.15(14.2), 402.68(11.9)
1121.124 5	99.5 9	⁵⁰ Sc(102.5 s)	1553.768(100), 523.792(88.7), 2205.722(1.27)
1121.2 5	0.51	¹²¹ In(3.88 m)	60.34(20), 1041.1(1.12), 1100.7(0.92)
1121.2 6	0.047	¹⁴² La(91.1 m)	641.285(47), 2397.8(13.3), 2542.7(10.00)
1121.29 19	0.157 10	¹¹⁵ Sb(32.1 m)	497.358(98), 489.27(1.3), 1236.52(0.58)
1121.30 10	0.20 4	¹¹⁹ Te(16.03 h)	644.01(84), 699.85(10.1), 1749.65(3.95)
• 1121.3007 534.9 1		¹⁸² Ta(114.43 d)	67.75001(41.2), 1221.4066(26.98), 1189.0503(16.23)
1121.3007 532		¹⁸² Re(12.7 h)	67.75001(38.2), 1221.4066(24.8), 1189.0503(15.0)
• 1121.3007 522.0 6		¹⁸² Re(64.0 h)	229.3220(26), 67.75001(22.2), 1221.4066(17.4)
1121.4 10	0.043 22	¹²⁹ Sb(4.40 h)	812.8(43), 914.6(20.0), 544.7(17.9)
1121.4 6	>1.0	¹⁷⁶ Tm(1.9 m)	189.57(44.5), 1069.3(34), 381.8(21.8)
• 1121.434 160.0352 25		¹⁸⁴ Re(38.0 d)	903.279(37.9), 792.071(37.5), 111.208(17.1)
1121.5 2	0.10 3	¹³³ Ce(4.9 h)	477.22(39), 510.36(20.7), 58.39(19.2)
1121.5 6	†1.05 15	¹⁸² Ir(15 m)	273.23(†100), 126.79(†77), 236.3(†21.0)
1121.6 3	0.09 5	⁹⁸ Nb(51.3 m)	787.374(93), 722.645(73.8), 1168.830(17.8)
1121.60 18	0.7	¹⁰⁶ Rh(131 m)	511.842(85), 1045.83(30.4), 717.24(28.9)
• 1121.60 18	0.57 6	¹⁰⁶ Ag(8.28 d)	511.842(88), 1045.83(29.6), 717.24(28.9)
1121.6 3	1.19 18	¹⁹⁰ Tl(3.7 m)	416.4(91), 625.4(82), 731.1(37)
1121.66 10	2.1 3	¹⁹⁵ Tl(1.16 h)	563.52(10.5), 884.47(10.0), 1363.88(8.4)
1121.68 3	61.2 23	¹²² In(10.8 s)	1140.55(100), 1001.58(98.4), 103.74(81)
1121.7	0.31 6	¹⁹⁵ Tl(1.16 h)	563.52(10.5), 884.47(10.0), 1363.88(8.4)
1121.7 1	0.25 3	²³⁴ Pa(6.70 h)	131.30(18), 946.00(13.4), 883.24(9.6)
1121.8 3	0.82 11	¹⁴⁹ Dy(4.20 m)	100.8(15.2), 789.4(11.8), 1776.3(11.1)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
1121.9 5	0.0681 10	¹¹⁴ Sb(3.49 m)	1299.90(99), 887.60(17.4), 327.18(7.0)
1121.9 3	1.24 15	¹²¹ Cd(13.5 s)	324.976(49.5), 1040.26(16.8), 349.937(12.9)
1121.9 2	†1.2 2	¹⁷² Ir(2.0 s)	227.8(†100.0), 378.4(†62.0), 448.4(†40.5)
1121.9 3	0.43 6	¹⁸⁶ Au(10.7 m)	191.56(62), 298.67(25.4), 764.89(10.5)
• 1121.91 13	0.0209 22	¹⁴⁸ Eu(54.5 d)	550.284(98.5), 629.987(71.9), 611.293(20.5)
1122.00 12	0.166 20	¹⁶⁵ Yb(9.9 m)	80.11(49), 68.86(9.1), 1090.28(4.4)
1122 3	0.0021 8	¹⁸⁵ Ta(49.4 m)	177.59(25.7), 173.68(22.6), 65.86(3.9)
1122.07	11.9 20	⁴⁰ Sc(182.3 ms)	3736.50(100), 754.73(41), 2044.65(25.4)
1122.08 10	0.288 24	⁸⁹ Br(4.40 s)	1097.82(6.00), 997.93(4.26), 953.53(4.26)
1122.09 12	3.34 6	¹⁵⁶ Ho(56 m)	266.35(54.7), 137.83(51), 366.25(10.73)
1122.1 6		¹⁴⁴ Cs(1.01 s)	199.326(†100.0), 639.00(†21.2), 758.96(†20.6)
1122.1 1	†0.45 9	¹⁶⁰ Ho(5.02 h)	728.18(†100), 879.383(†65.9), 962.317(†59.1)
1122.15 4	0.253 11	¹³⁰ I(12.36 h)	536.09(99), 668.54(96), 739.48(82)
1122.15 4	0.168 6	¹³⁰ I(9.0 m)	536.09(16), 586.05(1.07), 1614.10(0.447)
1122.15 4	0.073 15	¹³⁰ Cs(29.21 m)	536.09(3.8), 586.05(0.47), 894.5(0.39)
1122.20 10	1.67 17	¹⁰⁶ Tc(35.6 s)	270.07(56), 2239.30(13.6), 1969.40(8.9)
1122.2 4	0.16 4	¹²¹ Xe(40.1 m)	252.7(13), 132.8(10.9), 445.2(7.7)
1122.2 2	†5.18 12	¹²⁹ Ba(2.17 h)	182.30(†100), 1459.1(†50.0), 202.38(†33.7)
• 1122.21 7	0.154 19	¹⁶⁹ Lu(34.06 h)	960.622(23.4), 191.2137(20.6), 1449.74(9.92)
1122.3 3	0.28	¹¹¹ Sb(75 s)	154.48(71), 489.1(42), 1032.6(10.0)
1122.32 10	0.18 5	⁹⁸ Nb(51.3 m)	787.374(93), 722.645(73.8), 1168.830(17.8)
1122.38 8	4.06 20	¹⁶⁶ Lu(2.65 m)	228.12(77.3), 337.50(41), 367.95(31.4)
1122.47 15	†4.8 10	¹⁸⁹ Hg(7.6 m)	320.99(†100), 78.21(†63), 565.42(†48)
1122.48 6	3.95 20	⁹³ Sr(7.423 m)	590.238(67), 875.73(24.1), 888.13(21.8)
1122.5 3	5.8 9	¹¹⁴ Rh(1.85 s)	332.9(87), 519.8(48.4), 618.7(31)
1122.5 3	0.34 7	¹¹⁹ Cd(2.69 m)	292.9(36.8), 343.0(16.9), 1609.7(10.9)
• 1122.5 3	0.0157 5	¹⁷⁰ Lu(2.00 d)	84.2551(4.256), 1280.25(3.450), 2041.88(1.434)
1122.53 7	0.27 4	¹⁵³ Dy(6.4 h)	80.723(11.10), 213.754(10.90), 99.659(10.51)
1122.63 3	4.54 9	¹⁵¹ Nd(12.44 m)	116.80(43.4), 255.68(16.4), 1180.89(14.8)
1122.64 6	0.099 5	²⁴⁶ Am(25.0 m)	1078.86(27.7), 798.80(25), 1062.04(17.1)
• 1122.64 6	0.4	²⁴⁶ Bk(1.80 d)	798.80(61), 1081.40(5.8), 833.60(5.0)
1122.73 8	0.35 2	¹⁴³ La(14.2 m)	620.3(2.34), 643.75(1.55), 621.4(1.52)
1122.8 5	0.16 8	¹⁴⁰ Xe(13.60 s)	805.52(20), 1413.66(12.2), 1315.05(8.2)
1122.80 9	0.103 16	¹⁷⁶ Ta(8.09 h)	1159.28(25), 88.34(12), 1224.93(6)
1122.80 10	1.102 17	¹⁹² Au(4.94 h)	316.50791(58.0), 295.95827(22.3), 2236.89(5.6)
1122.8 3	0.0007	²³⁹ U(23.45 m)	74.664(48), 43.533(4.14), 662.24(0.18)
• 1122.855 150.336 10		¹⁵⁰ Eu(35.8 y)	333.971(96), 439.401(80.4), 584.274(52.6)
1122.9 1	0.392 16	¹⁴² Ba(10.6 m)	255.300(20.5), 1204.3(14.23), 895.2(13.9)
• 1122.9 1	0.90 5	¹⁴⁷ Gd(38.06 h)	229.32(63), 396.00(34.3), 929.01(20.2)
1123 1	†<5	²³⁸ Pa(2.3 m)	1015.3(†<100), 1014.6(†<100), 635.18(†88)
1123.09 16	5.7 4	¹⁵⁴ Tb(21.5 h)	123.071(26), 1274.436(10.5), 2187.10(9.9)
1123.1 5	1.34 5	⁴⁵ Ar(21.48 s)	1020.04(34.0), 3703.2(33.3), 61.35(25.0)
1123.1 4	0.10 3	¹⁶⁷ Lu(51.5 m)	29.66(14.4), 239.22(8.6), 213.19(3.6)
1123.1 2	†<5	²³⁸ Pa(2.3 m)	1015.3(†<100), 1014.6(†<100), 635.18(†88)
1123.1 2	0.26 5	²⁴² Np(2.2 m)	735.93(5), 780.44(2.76), 1473.1(2.34)
1123.13 15	0.39 5	¹²⁸ In(0.84 s)	1168.80(40), 935.20(6.5), 1089.53(6.0)
1123.13 15	1.2 2	¹²⁸ In(0.72 s)	831.54(100), 1168.80(100), 120.54(11.1)
1123.3 5	†2.0 5	¹⁵² Tb(17.5 h)	344.281(†1500), 586.294(†223), 271.135(†203)
1123.34 14	1.78 8	⁸⁵ Y(4.86 h)	231.67(22.8), 2123.8(5.0), 767.40(3.6)
1123.37 15	0.50 4	⁹⁰ Br(1.92 s)	707.05(38.0), 1362.32(11.2), 655.17(7.7)
1123.4 10	1.5 4	¹⁶⁴ Tb(3.0 m)	168.838(25.4), 754.80(23.3), 215.07(21)
1123.44 5	0.44 4	¹⁴⁶ La(6.27 s)	258.47(64), 924.58(7.45), 702.28(6.43)
1123.47 8	0.0150 23	¹⁴⁹ Nd(1.728 h)	211.309(25.9), 114.314(19.2), 270.166(10.7)
1123.5 6	0.9 4	¹²² Cs(4.5 m)	331.1(94), 497.1(79), 638.5(63)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
1123.5 5	0.030 15	¹⁵¹ Nd(12.44 m)	116.80(43.4), 255.68(16.4), 1180.89(14.8)
1123.6 7	0.0007 5	⁸² Rb(1.273 m)	776.517(13), 1395.139(0.471), 698.374(0.133)
1123.6 2	9.2 6	¹³¹ Sb(23.03 m)	943.4(47), 933.1(26.1), 642.30(23)
1123.6 5	0.39 4	¹³⁷ Pm(2.4 m)	177.5(40.29), 108.6(35), 233.6(29.57)
1123.62 21	0.50	¹⁸⁶ Ta(10.5 m)	197.93(50), 214.87(42.3), 510.82(37.5)
1123.7 12	0.17 17	¹⁰⁵ In(5.07 m)	131.37(41), 260.21(15.7), 604.11(9.2)
1123.72 7	0.111 11	⁶³ Zn(38.47 m)	669.62(8), 962.06(6.5), 1412.08(0.75)
• 1123.74 8	0.0030 5	⁷¹ As(65.28 h)	174.954(82.00), 1095.490(4.08), 499.876(3.624)
1123.80 15	0.020 4	¹⁸⁹ Pt(10.87 h)	721.41(9.3), 94.33(7.6), 568.84(7.1)
• 1123.8 3	0.032 7	¹⁹⁰ Ir(11.78 d)	186.718(52.4), 605.24(39.9), 518.55(34.0)
1123.83 30	0.194 6	⁷⁷ Rb(3.75 m)	66.52(57), 178.99(22.2), 393.37(9.7)
1123.87 50	0.032	¹³⁷ I(24.5 s)	1218.00(12.8), 601.05(4.80), 1302.64(4.42)
1123.9 3	0.06 4	¹³³ Te(12.5 m)	312.072(62), 407.63(27.1), 1333.21(10.67)
1123.90 16		¹⁵⁴ Tb(9.4 h)	123.071(30), 247.925(22.1), 540.18(20)
1123.90 16	0.4 4	¹⁵⁴ Tb(21.5 h)	123.071(26), 1274.436(10.5), 2187.10(9.9)
1123.9 1	1.59 16	²⁰³ Po(36.7 m)	908.64(55), 1090.95(19.2), 893.49(18.7)
1123.93	0.30	²⁰³ Bi(11.76 h)	820.3(30), 825.2(14.6), 896.9(13)
1124 1	1.40 16	⁵¹ Sc(12.4 s)	1437.3(52), 2144.1(31.8), 1567.5(14.9)
1124.0 5	0.0011 8	⁹⁶ Tc(51.5 m)	778.224(1.9), 1200.231(1.08), 480.705(0.311)
1124 1	2.1 7	⁹⁸ Cd(9.2 s)	347.18(78), 1176.1(66.3), 107.28(43.7)
1124.00 3	3.64 3	¹³⁵ I(6.57 h)	1260.409(28.90), 1131.511(22.74), 1678.027(9.62)
1124.0 17	0.36 4	¹⁵¹ Dy(17.9 m)	386.10(19.4), 49.46(18.0), 546.31(14.3)
1124 4	0.046 23	¹⁹³ Au(17.65 h)	186.17(10.1), 255.57(6.7), 268.22(3.9)
1124.1 7	0.15 4	¹⁰³ Cd(7.3 m)	1461.81(12), 1448.70(5.55), 1079.90(5.44)
• 1124.2	0.0069 10	¹⁵⁴ Eu(8.593 y)	123.071(40.79), 1274.436(35.19), 723.304(20.22)
1124.24 20	0.123 15	¹⁶³ Yb(11.05 m)	860.28(10.1), 63.62(6.5), 123.21(1.98)
1124.29 4	0.259 10	²⁴⁶ Am(25.0 m)	1078.86(27.7), 798.80(25), 1062.04(17.1)
• 1124.29 4	4.4	²⁴⁶ Bk(1.80 d)	798.80(61), 1081.40(5.8), 833.60(5.0)
1124.4 5	0.23 6	⁹⁹ Pd(21.4 m)	136.00(73), 263.60(15.2), 673.38(6.9)
1124.5 6	0.009 5	⁷⁹ Rb(22.9 m)	688.1(23), 182.77(19.2), 143.41(13.9)
1124.5 2	†2	¹³⁹ I(2.29 s)	527.7(†100), 571.2(†98), 536.6(†67)
1124.5 7	0.14 4	¹⁷⁵ Ta(10.5 h)	207.4(14.0), 348.5(12.0), 266.9(10.8)
1124.6 1	†0.32 9	¹⁵⁸ Ho(11.3 m)	218.21(†100.0), 98.91(†70), 945.7(†37)
1124.6 4	0.175 21	¹⁸⁷ Au(8.4 m)	1331.81(7.0), 1408.23(3.06), 914.73(3.02)
• 1124.65 30	0.0381 13	¹⁷⁰ Lu(2.00 d)	84.2551(4.256), 1280.25(3.450), 2041.88(1.434)
1124.73 8	0.094 9	¹⁰⁵ Cd(55.5 m)	961.84(4.69), 346.870(4.20), 1302.459(3.98)
1124.77 10	1.85 20	²⁰⁶ At(30.0 m)	700.66(98), 477.10(86), 395.54(48)
1124.82 11	10.9 5	¹⁰¹ Sr(118 ms)	128.34(18.0), 510.73(8.5), 1211.28(6.1)
1124.9 3	1.0 3	¹⁰⁴ In(1.8 m)	658.0(100), 834.1(99), 878.1(29.4)
1124.9 5	0.55 10	¹²⁸ La(5.0 m)	284.00(87), 479.24(54), 643.65(14.7)
1124.9 3	1.0 4	¹⁵² Ho(49.5 s)	647.2(92), 613.8(88.4), 683.3(88)
1124.9 5	1.18 6	¹⁶² Ho(67.0 m)	185.005(28.6), 1220.0(22.5), 282.864(11.3)
1124.9 2	0.0103 24	²⁰¹ Pb(9.33 h)	331.19(79), 361.27(9.9), 945.96(7.4)
1124.9 2	0.027 3	²⁵¹ Fm(5.30 h)	880.8(2.19), 453.1(1.45), 405.6(0.99)
1124.99 5	0.118 3	⁷⁷ Ge(11.30 h)	264.44(54), 211.03(30.8), 215.50(28.6)
1125 1	35.2 19	⁹⁷ Y(1.17 s)	1103.0(92.6), 161.4(71.8), 1091(56)
1125.0 3	0.42 8	¹⁰¹ Ag(11.1 m)	261.0(53), 588.0(10.0), 667.3(9.8)
1125.0 6	0.059 11	¹³⁷ Pr(1.28 h)	836.7(1.8), 433.9(1.28), 514.0(1.08)
1125.0 2	†0.45 9	¹⁶⁰ Ho(5.02 h)	728.18(†100), 879.383(†65.9), 962.317(†59.1)
1125.0 2	0.21 4	¹⁶⁰ Ho(25.6 m)	728.18(46.9), 879.383(26.6), 962.317(25.6)
1125 1	0.42 11	¹⁶⁴ Tb(3.0 m)	168.838(25.4), 754.80(23.3), 215.07(21)
1125.1 3	5.3 6	⁷² Br(78.6 s)	862.03(70), 1316.70(17.3), 454.70(13.1)
1125.10 6	0.45 6	¹¹⁷ Cd(2.49 h)	273.349(28), 1303.27(18.4), 344.459(17.9)
1125.1 20	0.055 10	²⁰⁸ Rn(24.35 m)	426.78(7.07), 251.05(5.02), 350.026(3.34)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
1125.2 6	0.11 3	¹⁵⁹ Er(36 m)	624.5(33), 649.1(23.4), 205.92(9.7)
1125.2 3	0.14 4	¹⁸⁸ Hg(3.25 m)	66.7(63), 190.1(4.40), 82.7(2.6)
1125.20 8	2.30 8	²⁰² Au(28.8 s)	439.59(10.0), 1306.38(2.25), 1203.7(2.01)
1125.2 1	0.36 7	²³⁴ Pa(6.70 h)	131.30(18), 946.00(13.4), 883.24(9.6)
• 1125.22 4	0.106 5	¹⁷² Lu(6.70 d)	1093.657(62.5), 900.724(29.8), 181.528(20.6)
1125.28 14	0.040 3	¹⁵¹ Tb(17.609 h)	287.357(28.3), 251.863(26.3), 108.088(24.3)
1125.3 5	0.43 11	¹²³ Cs(5.94 m)	97.3(23), 596.7(10.1), 83.3(4.1)
1125.3 3	25.0 25	¹⁸³ Lu(58 s)	1056.8(16.5), 168.1(7.5), 248.4(5.0)
1125.32 5	0.030 4	¹⁴⁹ Nd(1.728 h)	211.309(25.9), 114.314(19.2), 270.166(10.7)
1125.4 10	0.107 22	¹²⁹ Sb(4.40 h)	812.8(43), 914.6(20.0), 544.7(17.9)
1125.4 2	†100 15	¹³⁴ Pr(11 m)	293.5(†100), 299.0(†100), 1196.8(†100)
1125.4 5	0.030 15	¹⁵¹ Nd(12.44 m)	116.80(43.4), 255.68(16.4), 1180.89(14.8)
1125.45 9	0.14	¹⁷⁶ Ta(8.09 h)	1159.28(25), 88.34(12), 1224.93(6)
• 1125.46 4	14.9 3	¹³¹ Te(30 h)	773.67(49.9), 852.21(27.0), 793.75(18.10)
• 1125.48 17	0.213 10	²³² Pa(1.31 d)	969.315(41.6), 894.351(19.8), 150.059(10.8)
1125.48 17	1.46 16	²³² Np(14.7 m)	327.3(52), 819.187(33.3), 866.760(24.4)
1125.5 6	0.0033 12	⁷³ Se(39.8 m)	67.03(2.59), 253.70(2.356), 84.0(2.03)
1125.5	0.07	⁸³ As(13.4 s)	734.60(43), 1113.10(14.7), 2076.70(11.9)
• 1125.5 5	0.11 6	¹⁴⁷ Gd(38.06 h)	229.32(63), 396.00(34.3), 929.01(20.2)
1125.5 3	0.22 4	¹⁶² Tm(21.70 m)	102.00(17.5), 798.68(8.4), 227.52(7)
• 1125.55 30	0.0165 24	⁸³ Sr(32.41 h)	762.65(30), 381.53(14.1), 418.37(4.41)
1125.69 18	†23.5 20	¹⁵⁹ Yb(1.58 m)	166.16(†500), 177.12(†159), 390.20(†113)
• 1125.7 6	0.014 4	¹⁰⁵ Ag(41.29 d)	344.520(41), 280.41(30.2), 644.55(11.1)
1125.700 230.0153 5		¹¹⁰ Ag(24.6 s)	657.7622(4.5), 815.35(0.0382), 818.031(0.0090)
• 1125.700 230.036 8		¹¹⁰ Ag(249.79 d)	657.7622(94.0), 884.685(72.2), 937.493(34.13)
1125.700 231.02 5		¹¹⁰ In(69.1 m)	657.7622(98), 2129.53(2.13), 2211.49(1.76)
1125.700 230.20 10		¹¹⁰ In(4.9 h)	657.7622(98.3), 884.685(92.9), 937.493(68.4)
1125.7	1.15	¹⁴⁹ Ho(21.1 s)	1090.7(74.8), 1073.2(6.37), 1583.6(4.48)
1125.7 4	0.0050 20	²⁰⁸ Tl(3.053 m)	2614.533(99), 583.191(84.5), 510.77(22.6)
1125.7 5	†3.5×10 ³ 6	²³⁴ Pa(1.17 m)	1001.03(†837000), 766.38(†294000), 742.81(†80000)
1125.8 2	0.31 6	¹⁰⁰ Nb(1.5 s)	535.60(45.7), 528.24(9.1), 159.547(8.8)
1125.8 2	†19.6 14	¹⁹⁵ Bi(183 s)	807.6(†100), 831.7(†100), 776.2(†95)
1125.90 20	0.176 17	¹¹² Ag(3.130 h)	617.27(43), 1387.67(5.4), 606.49(3.1)
• 1125.97 16	0.0027 5	¹³¹ Ba(11.50 d)	496.326(47), 123.805(28.97), 216.078(19.66)
1126.0 1	0.09 1	¹⁰⁷ Tc(21.2 s)	102.70(21.0), 177.00(9.2), 106.31(7.6)
1126.08	7.60 12	⁴⁴ K(22.13 m)	1157.031(58), 2150.76(22.7), 2518.95(9.69)
• 1126.08	1.2	⁴⁴ Sc(58.6 h)	1001.85(1.2), 1157.031(1.2)
1126.1 3	0.203 20	⁹⁹ Nb(2.6 m)	97.785(7), 253.50(3.64), 2641.3(3.64)
1126.10 20	0.69 20	¹⁰² Nb(4.3 s)	296.611(79), 1633.10(41), 551.54(30)
1126.1 4	1.40 12	¹⁰⁵ In(5.07 m)	131.37(41), 260.21(15.7), 604.11(9.2)
1126.1 1	0.061 3	¹¹³ Ag(5.37 h)	298.58(10), 258.8(1.64), 316.3(1.343)
1126.1 3	0.29 3	¹³⁹ Pm(4.15 m)	402.8(15), 463.1(4.1), 367.8(3.52)
1126.16	0.0062 18	³³ Cl(2.511 s)	840.989(0.524), 1967.12(0.458), 2867.59(0.440)
1126.3 3	0.067 12	⁹³ Kr(1.286 s)	253.42(41.2), 323.89(24.1), 266.83(20.6)
1126.3 5	0.229 22	¹¹⁵ Ag(20.0 m)	229.08(18), 212.80(4.4), 472.70(4.0)
1126.3 3	0.00063 15	¹⁶¹ Gd(3.66 m)	360.94(0.59), 314.92(22.7), 102.315(13.9)
1126.34 12	0.163 20	¹⁶⁵ Yb(9.9 m)	80.11(49), 68.86(9.1), 1090.28(4.4)
1126.4 2	†2.64 16	¹²⁹ Ba(2.17 h)	182.30(†100), 1459.1(†50.0), 202.38(†33.7)
1126.48 16	†1.9 4	¹⁸⁹ Hg(7.6 m)	320.99(†100), 78.21(†63), 565.42(†48)
1126.5 4	0.049 20	¹³² I(2.295 h)	667.718(99), 772.60(75.6), 954.55(17.6)
1126.5 8	0.50 4	¹⁷⁰ Ta(6.76 m)	100.8(21.0), 221.2(15.7), 860.4(7.39)
1126.6 8	0.8 4	¹²² Cs(4.5 m)	331.1(94), 497.1(79), 638.5(63)
1126.6 4	0.35 9	¹⁷⁵ Tm(15.2 m)	514.868(65), 941.23(15), 363.942(12.7)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
1126.62 ¹⁰	0.53 ³	¹⁶⁷ Lu(51.5 m)	29.66(14.4), 239.22(8.6), 213.19(3.6)
1126.7 ⁵	0.13 ³	¹²¹ Ag(0.78 s)	314.55(32.1), 353.43(19.9), 500.61(9.3)
1126.7 ⁸	\dagger 5.5 ⁸	¹⁹¹ Tl(5.22 m)	452.6(\dagger 100), 470.1(\dagger 98), 391.6(\dagger 96)
1126.7 ¹	22.1 ¹⁴	²¹¹ Rn(14.6 h)	674.1(45), 1362.9(32.5), 678.4(28.9)
1126.78 ¹⁵	0.085 ¹⁰	⁸⁷ Br(55.60 s)	1419.71(22.0), 1476.04(7.9), 1577.60(6.0)
1126.8 ²	0.8	¹⁴¹ Nd(2.49 h)	1292.6(0.46), 1147.2(0.306), 145.4405(0.239)
1126.8 ¹	1.50 ¹²	¹⁴² Ba(10.6 m)	255.300(20.5), 1204.3(14.23), 895.2(13.9)
1126.8 ³	0.37	¹⁸¹ Au(11.4 s)	198.60(4.4), 2022.4(4.2), 79.40(4.2)
1126.80 ²⁵	0.16 ³	²⁰⁸ At(1.63 h)	686.527(98), 660.040(89), 177.595(48.6)
1126.8 ¹	0.30 ³	²³⁴ Pa(6.70 h)	131.30(18), 946.00(13.4), 883.24(9.6)
1126.8 ¹	\dagger 5.3 \times 10 ²	²³⁴ Pa(1.17 m)	1001.03(\dagger 837000), 766.38(\dagger 294000), 742.81(\dagger 80000)
1126.807 ²⁵⁰	0.0718 ²¹	¹⁶⁶ Tm(7.70 h)	778.817(18.9), 2052.36(17.2), 184.410(16.1)
1126.9 ³	0.40 ¹¹	¹³⁹ Sm(2.57 m)	273.7(37), 306.7(28.5), 596.3(8.0)
1126.96 ¹⁴	0.060 ⁴	¹⁴¹ Cs(24.94 s)	48.53(7.90), 561.63(4.7), 1194.02(3.95)
1126.965 ²¹⁰	0.424 ¹⁹	⁹⁶ Nb(23.35 h)	778.224(96.45), 568.80(58.0), 459.88(26.62)
• 1126.965 ²¹¹⁵	0.2 ¹²	⁹⁶ Tc(4.28 d)	778.224(100), 849.929(98), 812.581(82)
1127.0 ⁸	0.34 ⁸	¹²¹ Cd(8.3 s)	2059.41(21.0), 1020.89(18.9), 987.81(13.6)
1127.0 ²	0.11 ³	¹⁷³ Ta(3.14 h)	172.2(18), 69.70(5.9), 90.3(5.0)
1127.01 ¹²	1.46 ³	¹⁹² Au(4.94 h)	316.50791(58.0), 295.95827(22.3), 2236.89(5.6)
• 1127.1 ⁶		¹⁶⁹ Lu(34.06 h)	960.622(23.4), 191.2137(20.6), 1449.74(9.92)
1127.1 ³	0.48 ¹¹	¹⁸⁶ Ir(2.0 h)	137.155(27), 767.508(21.2), 630.354(18.0)
1127.11 ⁷	0.207 ¹⁵	¹⁵¹ Nd(12.44 m)	116.80(43.4), 255.68(16.4), 1180.89(14.8)
1127.3 ⁵	0.12 ⁴	¹⁸¹ Re(19.9 h)	365.57(56), 360.70(20), 639.30(6.4)
1127.32 ¹⁰	1.2	¹¹⁸ Ag(3.76 s)	487.77(60), 677.13(11.9), 2788.7(11.8)
1127.44 ¹¹	0.32 ⁵	²⁰² Bi(1.72 h)	960.67(99), 422.18(83.7), 657.49(60.6)
1127.5 ⁴	\dagger 1.57 ⁹	¹⁰² Tc(4.35 m)	475.070(\dagger 115), 628.05(\dagger 35.3), 631.28(\dagger 21.3)
1127.5 ²	0.25 ³	²⁰⁴ Bi(11.22 h)	899.15(98), 374.72(82), 984.02(59)
1127.59 ¹⁰	0.17	¹³⁷ I(24.5 s)	1218.00(12.8), 601.05(4.80), 1302.64(4.42)
• 1127.69 ⁴	0.084 ³	¹⁴⁸ Eu(54.5 d)	550.284(98.5), 629.987(71.9), 611.293(20.5)
1127.7 ²	0.140 ¹⁶	²²⁴ Fr(3.30 m)	215.985(33.1), 131.613(16.3), 836.90(9.8)
1127.8	0.43	⁸³ As(13.4 s)	734.60(43), 1113.10(14.7), 2076.70(11.9)
1127.8 ³	0.066 ²⁵	¹⁵² Pm(4.1 m)	121.7824(15.7), 841.586(2.17), 961.06(1.92)
1127.81 ⁵²	\dagger 0.8 ³	¹⁶⁵ Lu(10.74 m)	132.49(\dagger 100), 120.60(\dagger 100), 174.25(\dagger 47.0)
1127.81 ⁸	0.59 ⁵	¹⁷⁴ Ta(1.05 h)	206.50(58), 91.00(16.0), 1205.92(4.9)
1127.9	0.14	¹⁸⁵ Ir(14.4 h)	254.4(13.3), 1828.8(10), 60.0(5.7)
1127.9 ³	0.13 ⁵	²⁰⁷ At(1.80 h)	814.41(44.5), 588.33(19.2), 300.654(12.8)
• 1127.96 ⁶	1.26 ¹⁰	¹³¹ Te(30 h)	773.67(49.9), 852.21(27.0), 793.75(18.10)
1128.0 ³	0.31 ⁹	¹⁰⁴ Tc(18.3 m)	358.0(89), 530.5(15.6), 535.1(14.7)
1128.00 ⁶	0.404 ⁶	¹⁰⁶ Rh(29.80 s)	511.842(20), 621.94(9.93), 1050.39(1.56)
1128.00 ⁶	13.7 ⁹	¹⁰⁶ Rh(131 m)	511.842(85), 1045.83(30.4), 717.24(28.9)
1128.00 ⁶	0.0721 ²⁵	¹⁰⁶ Ag(23.96 m)	511.842(17.0), 621.94(0.316), 873.48(0.199)
• 1128.00 ⁶	11.8 ⁵	¹⁰⁶ Ag(8.28 d)	511.842(88), 1045.83(29.6), 717.24(28.9)
1128.0 ²	0.24 ⁴	¹³³ Ce(4.9 h)	477.22(39), 510.36(20.7), 58.39(19.2)
1128.1 ³	5.4 ⁸	⁵² Sc(8.2 s)	1049.7(98), 1267.9(39), 1032.3(13.7)
1128.1 ⁴	0.164 ²⁵	¹²¹ Xe(40.1 m)	252.7(13), 132.8(10.9), 445.2(7.7)
• 1128.1 ²	0.0436 ⁶	¹²⁴ I(4.18 d)	602.730(60), 1690.980(10.41), 722.786(9.98)
1128.1	0.18 ³	¹⁴⁶ Ba(2.22 s)	140.7(20.2), 251.2(19.6), 121.2(14.2)
1128.2 ³	1.41 ⁶	¹⁰⁹ Sn(18.0 m)	1099.4(30), 649.90(28.0), 1321.3(11.9)
1128.2 ⁴	0.18 ⁴	¹⁵⁰ Tb(3.48 h)	638.05(72), 496.3(14.8), 792.5(4.39)
1128.28 ²¹	0.53 ⁵	¹⁵⁶ Ho(56 m)	266.35(54.7), 137.83(51), 366.25(10.73)
1128.3 ³	\dagger 5	¹⁸¹ Pt(51 s)	289.29(\dagger 100), 111.97(\dagger 100), 230.15(\dagger 92)
• 1128.33 ¹⁵	0.063 ⁷	¹⁸⁸ Ir(41.5 h)	155.032(29.7), 2214.62(18.7), 632.99(18)
1128.34 ⁹	0.65 ⁸	⁷⁷ Zn(2.08 s)	189.49(28.1), 473.94(19.7), 1832.0(12.4)
1128.4 ³	0.52 ⁷	¹⁵⁹ Eu(18.1 m)	67.8(19), 78.6(9.1), 95.7(7.0)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
1128.42 7	0.064 3	¹²¹ I(2.12 h)	212.189(84), 532.08(6.07), 598.74(1.47)
1128.44 8	50 6	¹²⁹ Sn(6.9 m)	1161.31(56.0), 760.8(16.8), 782.48(15)
1128.5 3	0.31 5	¹⁸³ Au(42.0 s)	161.18(9.4), 214.13(5.9), 313.08(5.0)
1128.52 16	†6.3 8	⁸³ Ge(1.85 s)	306.51(†100.0), 1193.77(†20.5), 1525.50(†13.6)
• 1128.558 7	0.320 4	¹⁵⁴ Eu(8.593 y)	123.071(40.79), 1274.436(35.19), 723.304(20.22)
1128.558 7	1.58 12	¹⁵⁴ Tb(9.4 h)	123.071(30), 247.925(22.1), 540.18(20)
1128.558 7	0.18 6	¹⁵⁴ Tb(21.5 h)	123.071(26), 1274.436(10.5), 2187.10(9.9)
1128.56 11	0.0031 8	¹⁴⁹ Nd(1.728 h)	211.309(25.9), 114.314(19.2), 270.166(10.7)
1128.6 3	2.0 3	⁸⁹ Nb(1.9 h)	1627.20(3.4), 1833.46(3.16), 3092.7(3.0)
1128.6 8	1.0 4	¹²¹ Cd(13.5 s)	324.976(49.5), 1040.26(16.8), 349.937(12.9)
1128.6 3	0.042 9	¹³⁷ Pr(1.28 h)	836.7(1.8), 433.9(1.28), 514.0(1.08)
1128.6	†6.3	¹⁴⁴ Gd(4.5 m)	333.3(†100), 2432.6(†94.8), 629.5(†32.4)
1128.6 8	0.068 14	¹⁵⁰ Pm(2.68 h)	333.971(68), 1324.51(17.5), 1165.739(15.8)
1128.7 4	0.012 4	¹⁵¹ Nd(12.44 m)	116.80(43.4), 255.68(16.4), 1180.89(14.8)
1128.74 25	0.027 5	¹⁸³ Os(13.0 h)	381.768(89.6), 114.463(20.63), 167.844(8.81)
1128.8 2	0.027 3	¹¹³ Sb(6.67 m)	497.96(80), 332.41(14.8), 88.25(2.7)
1128.8 5	0.011 3	¹⁵¹ Tb(17.609 h)	287.357(28.3), 251.863(26.3), 108.088(24.3)
1128.8 2	2.37 17	²³⁰ Fr(19.1 s)	711.0(13.6), 129.1(11.0), 728.4(7.3)
1128.89 13	1.03 11	¹⁴⁶ Cs(0.343 s)	181.02(57.0), 557.76(9.18), 332.38(6.44)
1128.895 140.18 4		¹⁷⁴ Tm(5.4 m)	366.526(92), 992.128(87), 272.918(86)
1128.9 1	11.1 13	⁶² Co(1.50 m)	1172.9(84), 2301.8(14.7), 1985.13(1.6)
1128.9 1	1.28 17	⁶² Co(13.91 m)	1172.9(97), 1163.4(67.3), 2003.48(18.4)
1128.9 1	0.0324 17	⁶² Cu(9.74 m)	1172.9(0.34), 875.68(0.150), 2301.8(0.0414)
1128.98 11	0.209 21	¹⁵³ Dy(6.4 h)	80.723(11.10), 213.754(10.90), 99.659(10.51)
1129.0 2	0.17 6	¹⁵⁷ Er(18.65 m)	53.05(24), 391.32(14.2), 121.57(10.1)
1129 1	0.171 23	²⁰⁹ Rn(28.5 m)	408.32(50.3), 745.78(22.8), 337.45(14.5)
1129.118 110.446 19		¹⁸⁰ Re(2.44 m)	902.795(90), 103.557(22.2), 825.357(9.9)
1129.2 4	†100	¹⁰⁷ Sn(2.90 m)	678.5(†100), 1540.6(†30), 1001.3(†29)
1129.2 1	0.078 6	¹³⁹ Xe(39.68 s)	218.59(56), 296.53(21.7), 174.97(11.3)
1129.2 9	0.287 25	¹⁴⁶ La(6.27 s)	258.47(64), 924.58(7.45), 702.28(6.43)
1129.224 1592.7 4		⁹⁰ Nb(14.60 h)	2318.968(82.03), 141.178(66.8), 2186.242(17.96)
1129.3 4	0.016 4	¹³¹ La(59 m)	108.081(25.0), 417.783(18.0), 365.162(16.9)
1129.3 5	0.014 3	¹⁵¹ Tb(17.609 h)	287.357(28.3), 251.863(26.3), 108.088(24.3)
1129.3 3	0.22 3	¹⁸³ Ir(58 m)	392.52(10.4), 228.70(6.9), 87.67(5.6)
1129.3 4	†0.48 9	¹⁹² Tl(9.6 m)	422.8(†100), 634.8(†75.9), 786.3(†31.7)
1129.32 9	0.075 15	²⁰⁸ Rn(24.35 m)	426.78(7.07), 251.05(5.02), 350.026(3.34)
• 1129.37 5	0.0057 8	⁷¹ As(65.28 h)	174.954(82.00), 1095.490(4.08), 499.876(3.624)
1129.4 3	†2.5 12	¹⁵⁵ Nd(8.9 s)	180.574(†100), 418.99(†75), 955.08(†50)
1129.4 3	0.22	¹⁸¹ Au(11.4 s)	198.60(4.4), 2022.4(4.2), 79.40(4.2)
• 1129.41 10	0.135 6	¹⁵⁶ Eu(15.19 d)	811.79(9.70), 88.9667(8.4), 1230.68(7.98)
• 1129.41 10	0.169 9	¹⁵⁶ Tb(5.35 d)	534.318(66.6), 199.2132(40.9), 1222.36(31.00)
1129.5 8	2.5	¹¹⁶ Ag(2.68 m)	513.39(76), 2478.5(12), 699.58(11)
1129.5 4	0.0120 17	¹⁶² Tb(7.60 m)	260.070(37.2), 807.53(42.8), 888.20(38.7)
1129.5 4	0.38 4	¹⁶² Ho(67.0 m)	185.005(28.6), 1220.0(22.5), 282.864(11.3)
1129.6 4	0.8 2	¹²⁸ Sb(9.01 h)	753.82(100), 743.22(100), 314.12(61)
1129.6 3	†0.86 24	¹⁸⁹ Hg(7.6 m)	320.99(†100), 78.21(†63), 565.42(†48)
1129.65	5.3 3	²⁶ Na(1.072 s)	1808.63(99.0), 2541.2(2.5), 1895.8(2.2)
• 1129.65	2.4 2	²⁶ Al(7.4×10 ⁵ y)	1808.63(99.73), 2938.20(0.27)
1129.65 5	1.6	¹⁴⁰ Cs(63.7 s)	602.345(71.1), 908.25(11.6), 1200.25(6.39)
1129.7 1	0.0044 6	¹²⁷ Cs(6.25 h)	411.95(62.8), 124.70(11.37), 462.31(5.07)
1129.7 2	0.047	¹³³ Ce(4.9 h)	477.22(39), 510.36(20.7), 58.39(19.2)
1129.7 2	0.48 4	¹³³ Ce(4.9 h)	477.22(39), 510.36(20.7), 58.39(19.2)
1129.7 5	0.20 9	²⁰⁷ Rn(9.25 m)	344.53(46), 747.15(14.2), 402.68(11.9)
1129.71 17	0.0120 21	¹²² I(3.63 m)	564.119(18), 692.794(1.325), 793.278(1.297)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
1129.8 6	0.11 4	⁹¹ Kr(8.57 s)	108.788(43.5), 506.592(19.1), 612.87(7.7)
1129.8 1	0.024 3	¹⁴⁵ Gd(23.0 m)	1757.9(34.2), 1880.6(32.6), 1041.8(9.9)
1129.8 3	2.28 9	¹⁵¹ Dy(17.9 m)	386.10(19.4), 49.46(18.0), 546.31(14.3)
1129.8 3	1.1 11	¹⁵¹ Dy(17.9 m)	386.10(19.4), 49.46(18.0), 546.31(14.3)
• 1129.853 160.126 14		⁷⁶ As(26.32 h)	559.101(45), 657.041(6.2), 1216.104(3.42)
1129.853 164.59 22		⁷⁶ Br(16.2 h)	559.101(74), 657.041(15.9), 1853.67(14.7)
1129.9 3	98 5	⁵⁴ Co(1.48 m)	1408.1(100), 411.4(97)
1129.9 3	1.41 13	⁵⁷ Cr(21.1 s)	83.16(8.3), 850.2(8.2), 1752.1(5)
1129.9 1	0.0073 3	¹⁰⁷ Cd(6.50 h)	93.124(1.45), 828.93(0.17), 796.462(0.0665)
1129.9 2	†2	¹³⁹ I(2.29 s)	527.7(†100), 571.2(†98), 536.6(†67)
1129.9 2	0.168 12	¹⁴⁷ Pr(13.4 m)	77.9921(15), 314.675(13.2), 641.380(10.0)
• 1130 1	0.018 14	⁷⁶ As(26.32 h)	559.101(45), 657.041(6.2), 1216.104(3.42)
1130 1		⁷⁷ Ge(11.30 h)	264.44(54), 211.03(30.8), 215.50(28.6)
1130.0 3	0.47	¹⁰¹ Cd(1.2 m)	98.0(47), 1722.5(11), 1259.3(8)
1130.06 10	0.33 3	¹⁶⁴ Tm(5.1 m)	208.08(14.6), 314.97(10), 240.49(7.5)
1130.1 3	0.062 8	¹⁹⁷ Tl(2.84 h)	425.84(12.9), 152.22(7.2), 1411.34(4.5)
1130.12 16	0.191 21	⁹³ Rb(5.84 s)	432.61(17.4), 986.05(6.8), 213.429(6.7)
1130.16 7	†4.37 9	¹⁶² Lu(1.37 m)	166.82(†100), 631.87(†26.6), 798.76(†16.9)
1130.2 3	0.074 20	⁹⁵ Rb(377.5 ms)	352.02(49), 204.02(15.1), 680.7(14.8)
1130.2 4	0.015 8	¹⁵⁸ Eu(45.9 m)	944.09(25), 977.131(13.6), 79.5104(11)
1130.2 5	0.050 8	²³⁸ Am(98 m)	962.77(28), 918.69(23.0), 561.11(10.9)
1130.224 232.29 7		¹⁶³ Tm(1.810 h)	104.320(18.6), 69.229(11.6), 241.305(10.9)
1130.3 6	†1.25 15	¹⁸² Ir(15 m)	273.23(†100), 126.79(†77), 236.3(†21.0)
1130.3 3	†12.3 13	¹⁹³ Tl(21.6 m)	324.37(†100), 1044.7(†59), 676.10(†48)
• 1130.41 15	0.0399 24	⁸³ Sr(32.41 h)	762.65(30), 381.53(14.1), 418.37(4.41)
1130.49 21	0.41 7	¹⁰¹ Sr(118 ms)	128.34(18.0), 1124.82(10.9), 510.73(8.5)
1130.5 6	0.09 6	¹⁰⁹ Sn(18.0 m)	1099.4(30), 649.90(28.0), 1321.3(11.9)
1130.5 2	63 4	¹²³ In(5.98 s)	1019.7(32), 618.8(2.6), 845.5(1.3)
1130.6 3	1.69 19	¹¹⁷ Ag(5.34 s)	135.4(48), 386.8(39.9), 298.1(21.1)
1130.6 5	0.47 5	¹⁴² La(91.1 m)	641.285(47), 2397.8(13.3), 2542.7(10.00)
1130.6 1	†3.5 4	¹⁶⁰ Ho(5.02 h)	728.18(†100), 879.383(†65.9), 962.317(†59.1)
1130.6 1	1.66 17	¹⁶⁰ Ho(25.6 m)	728.18(46.9), 879.383(26.6), 962.317(25.6)
1130.6 4	3.3 4	¹⁷⁸ Re(13.2 m)	237.3(45), 105.9(23.0), 939.1(8.9)
1130.7 3	0.0131 25	⁶³ Zn(38.47 m)	669.62(8), 962.06(6.5), 1412.08(0.75)
1130.70 6	0.91 4	⁸⁰ Ga(1.697 s)	659.14(78.0), 1083.47(48.4), 1109.36(18.6)
1130.8 4	0.044 11	²¹⁴ Bi(19.9 m)	609.312(44.8), 1764.494(15.36), 1120.287(14.80)
1130.89 11	0.00036 9	¹³⁵ La(19.5 h)	480.51(1.5), 874.51(0.164), 587.83(0.1108)
• 1130.9 1	6.4 5	¹⁴⁷ Gd(38.06 h)	229.32(63), 396.00(34.3), 929.01(20.2)
1130.95 10	1.06 11	¹⁴⁸ La(1.05 s)	158.468(55.6), 989.85(9.3), 760.30(8.6)
1131.0 4	0.035 7	⁸⁵ Y(4.86 h)	231.67(22.8), 2123.8(5.0), 767.40(3.6)
1131.0 3	0.117 16	⁹⁶ Rb(0.199 s)	815.0(78.00), 692.0(8.0), 813.2(7.0)
1131.0 2	0.30 6	¹⁰¹ Zr(2.1 s)	119.3(10.8), 205.6(6.0), 912.2(3.48)
1131 2	<0.2	¹²³ In(5.98 s)	1130.5(63), 1019.7(32), 618.8(2.6)
1131.0 6	0.17 4	¹³⁵ Pr(24 m)	296.12(24), 82.64(13.7), 213.45(13.0)
1131.0 5	†2.9 5	¹⁵² Tb(17.5 h)	344.281(†1500), 586.294(†223), 271.135(†203)
1131.0 2	0.062 5	²⁴⁰ Np(7.22 m)	554.60(20.9), 597.40(11.7), 1496.9(1.33)
1131.1 3	3.6 9	¹⁴⁰ Gd(15.8 s)	174.8(76), 749.9(70), 379.0(38)
1131.2 2	†6.8 10	¹³¹ Ce(10.3 m)	169.42(†100), 414.25(†68), 119.18(†44)
• 1131.262 281.73 8		¹⁶⁵ Tm(30.06 h)	242.917(35.5), 47.155(16.9), 297.369(12.71)
1131.30 43	†1.6 3	¹⁶⁵ Lu(10.74 m)	132.49(†100), 120.60(†100), 174.25(†47.0)
1131.5 3	0.21 3	¹⁸³ Ir(58 m)	392.52(10.4), 228.70(6.9), 87.67(5.6)
1131.51 20	0.161 22	⁸⁹ Kr(3.15 m)	220.948(20.1), 586.03(16.6), 904.27(7.2)
1131.511 1822.74 14		¹³⁵ I(6.57 h)	1260.409(28.90), 1678.027(9.62), 1457.56(8.73)
1131.52 14	0.87 6	⁷⁴ Ga(8.12 m)	595.847(91), 2353.46(44.5), 608.353(14.3)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
• 1131.56 ²⁰	0.042 ⁵	⁷⁹ Kr(35.04 h)	261.29(13), 397.54(9.3), 606.09(8.12)
1131.6 ²	0.064 ¹⁸	¹⁵¹ Nd(12.44 m)	116.80(43.4), 255.68(16.4), 1180.89(14.8)
1131.62 ¹⁵	0.031 ⁴	⁸⁵ Br(2.90 m)	802.41(2.56), 924.63(1.63), 919.06(0.65)
1131.64 ⁵	68 ⁶	¹²⁴ In(3.17 s)	3214.15(21.5), 997.79(21.1), 1470.70(6.0)
1131.64 ⁵	100 ⁸	¹²⁴ In(2.4 s)	969.94(52), 1072.85(47), 102.91(45)
1131.65 ⁷	0.79 ³	¹⁴⁹ Tb(4.118 h)	352.24(29.43), 164.98(26.4), 388.57(18.37)
1131.70 ³⁰	0.306 ²⁰	¹¹⁴ Sb(3.49 m)	1299.90(99), 887.60(17.4), 327.18(7.0)
1131.7 ³	0.118 ²⁰	¹⁵³ Dy(6.4 h)	80.723(11.10), 213.754(10.90), 99.659(10.51)
1131.7 ⁶	0.73 ²⁰	¹⁸¹ Os(105 m)	238.75(44), 826.77(20), 118.03(12.9)
1131.7 ³	0.23 ³	¹⁹⁸ Tl(5.3 h)	411.8044(82), 675.8874(11), 636.4(10.1)
1131.72 ⁶	0.45 ⁴	²⁰⁷ At(1.80 h)	814.41(44.5), 588.33(19.2), 300.654(12.8)
1131.8	0.41	⁴³ Ar(5.37 m)	975.0(34), 738.1(15), 1439.5(13)
1131.872 ²⁵⁰	0.242 ⁶	¹⁶⁶ Tm(7.70 h)	778.817(18.9), 2052.36(17.2), 184.410(16.1)
1131.88 ⁷	0.0109 ¹²	²⁴⁶ Am(25.0 m)	1078.86(27.7), 798.80(25), 1062.04(17.1)
1131.9 ⁸	0.18 ¹¹	⁶¹ Zn(89.1 s)	475.0(16.85), 1660.5(7.80), 970.0(2.57)
1131.9 ⁴	1.3 ³	¹³⁰ Sb(6.3 m)	839.49(100), 793.53(86), 182.36(41)
1131.9 ⁴	0.09 ³	¹⁵⁹ Tm(9.13 m)	38.35(5.8), 84.8(5.8), 271.30(5.1)
1132.0 ⁶	0.143 ²⁴	¹²⁴ Cs(30.8 s)	353.9(40), 914.8(4.0), 492.6(3.6)
1132.0 ⁶	0.12 ⁵	¹⁴¹ Xe(1.73 s)	909.23(24.0), 118.705(16.1), 105.937(9.8)
1132.0 ⁵	0.076 ⁹	¹⁵¹ Tb(17.609 h)	287.357(28.3), 251.863(26.3), 108.088(24.3)
1132	0.0019 ⁴	¹⁵⁵ Sm(22.3 m)	104.3346(74.6), 245.771(3.7), 141.4428(1.98)
• 1132.05 ⁷	0.12 ³	¹⁴⁶ Eu(4.59 d)	747.2(98), 633.03(43), 634.07(37)
1132.2 ³	0.059 ⁵	¹²³ Xe(2.08 h)	148.9(49), 178.1(14.9), 330.2(8.6)
1132.2 ³	1.34 ¹²	¹⁴⁸ Pr(2.27 m)	301.702(61), 1357.78(5.5), 1023.18(4.8)
1132.2 ⁵	0.014 ³	¹⁵¹ Tb(17.609 h)	287.357(28.3), 251.863(26.3), 108.088(24.3)
1132.2 ³	0.12	¹⁶⁷ Lu(51.5 m)	29.66(14.4), 239.22(8.6), 213.19(3.6)
1132.24 ⁸	0.243 ¹⁵	⁹² Y(3.54 h)	934.46(13.9), 1405.28(4.8), 561.03(2.40)
• 1132.24 ⁸	0.005	⁹² Nb(10.15 d)	934.46(99), 912.73(1.78), 1847.27(0.85)
1132.35 ³	0.090 ⁴	⁶¹ Cu(3.333 h)	282.956(12.2), 656.008(10.77), 67.412(4.23)
1132.35 ⁴	0.0838 ²⁰	¹⁸⁸ Re(16.98 h)	155.032(14.9), 632.99(1.25), 477.99(1.0)
1132.4 ¹	0.055 ⁷	⁷⁹ Rb(22.9 m)	688.1(23), 182.77(19.2), 143.41(13.9)
• 1132.4 ⁴	0.0050 ²⁵	¹⁵³ Tb(2.34 d)	212.038(31.0), 170.504(6.8), 109.758(6.4)
• 1132.4 ²	0.010 ³	²³² Pa(1.31 d)	969.315(41.6), 894.351(19.8), 150.059(10.8)
1132.4 ²	0.88 ¹⁰	²³² Np(14.7 m)	327.3(52), 819.187(33.3), 866.760(24.4)
1132.49 ¹¹	0.095 ⁹	¹¹⁸ In(4.45 m)	1229.68(96), 1050.69(81.0), 683.08(54.3)
• 1132.5 ⁴	0.028 ¹⁰	¹⁸⁸ Ir(41.5 h)	155.032(29.7), 2214.62(18.7), 632.99(18)
1132.50 ²⁰	0.16 ⁵	¹⁹³ Hg(11.8 h)	257.97(61), 407.63(25), 573.25(14.2)
1132.55 ¹⁰	0.102 ¹⁸	¹⁵¹ Nd(12.44 m)	116.80(43.4), 255.68(16.4), 1180.89(14.8)
1132.55 ²³	0.041 ⁹	¹⁹² Au(4.94 h)	316.50791(58.0), 295.95827(22.3), 2236.89(5.6)
• 1132.570 ¹⁰⁰	0.0856 ¹⁰	¹¹⁵ Cd(44.6 d)	933.8(2.000), 1290.580(0.890), 484.470(0.290)
1132.58 ²⁰	0.22 ⁷	¹⁸¹ Re(19.9 h)	365.57(56), 360.70(20), 639.30(6.4)
1132.6 ³	0.92 ¹¹	¹¹⁹ Cd(2.69 m)	292.9(36.8), 343.0(16.9), 1609.7(10.9)
1132.7 ⁴	0.66 ¹⁶	¹⁴⁰ Xe(13.60 s)	805.52(20), 1413.66(12.2), 1315.05(8.2)
1132.7 ³	0.202 ²²	¹⁵³ Dy(6.4 h)	80.723(11.10), 213.754(10.90), 99.659(10.51)
1132.8 ³	0.08	⁸³ Zr(44 s)	55.55(8), 104.97(5.70), 475.1(5.1)
1132.8 ¹	0.0219 ¹⁷	¹²¹ I(2.12 h)	212.189(84), 532.08(6.07), 598.74(1.47)
1132.8 ³		¹⁵⁷ Pm(10.56 s)	160.61(35), 188.052(13.5), 571.27(5.39)
1132.80 ³	0.0194 ¹⁰	²⁵⁰ Bk(3.217 h)	989.12(45), 1031.85(35.6), 1028.65(4.91)
1132.80 ³	0.69 ⁹	²⁵⁰ Es(2.22 h)	989.12(13.3), 1031.85(10.6), 828.82(5.5)
• 1132.86	0.067 ⁷	¹⁷⁰ Lu(2.00 d)	84.2551(4.256), 1280.25(3.450), 2041.88(1.434)
1132.90 ¹⁰	0.155 ¹⁹	¹⁵⁸ Tm(3.98 m)	192.13(62), 335.10(16.8), 1149.83(7.6)
1132.96 ⁹	0.55 ¹¹	²⁰³ Po(36.7 m)	908.64(55), 1090.95(19.2), 893.49(18.7)
1133 ²		¹³ O(8.58 ms)	3502, 2364.7
1133	0.4 ³	²⁵ Ne(602 ms)	89.53(95.5), 979.77(18.1), 1069.30(2.3)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
1133	33000	¹³⁵ Xe(15.29 m)	786.836(†490000), 1358(†22000), 1192.2(†4400)
1133.1	0.15	¹⁴² Gd(70.2 s)	750.2(11.2), 178.90(11.20), 284.4(6.16)
1133.1.4	0.18	¹⁰⁴ Ag(69.2 m)	555.796(92.6), 767.72(65.7), 941.7(25.0)
1133.1.4	0.17	¹⁰⁴ Ag(33.5 m)	555.796(91), 1238.0(3.87), 2276.7(2.46)
• 1133.11.7	0.69.3	¹⁴⁶ Eu(4.59 d)	747.2(98), 633.03(43), 634.07(37)
• 1133.12.8	0.0467.22	¹⁴⁸ Eu(54.5 d)	550.284(98.5), 629.987(71.9), 611.293(20.5)
1133.16.5	0.86.8	²⁰⁴ Bi(11.22 h)	899.15(98), 374.72(82), 984.02(59)
1133.3.10	0.297.25	⁸⁶ Y(14.74 h)	1076.64(83), 627.72(32.6), 1153.01(30.5)
1133.3.2	1.74.6	¹³⁵ Te(19.0 s)	603.5(37.0), 266.8(10.36), 870.3(7.73)
1133.3.5	†1.9.7	¹⁹¹ Tl(5.22 m)	452.6(†100), 470.1(†98), 391.6(†96)
1133.4.6	0.0021.9	⁷³ Se(39.8 m)	67.03(2.59), 253.70(2.356), 84.0(2.03)
1133.4.3	0.22.9	¹⁰⁴ Tc(18.3 m)	358.0(89), 530.5(15.6), 535.1(14.7)
1133.4	0.6	¹⁴⁴ Tb(1 s)	743.0(21), 1143.9(4.0), 1719.1(1.7)
1133.4.4	†5.0.15	¹⁵⁹ Yb(1.58 m)	166.16(†500), 177.12(†159), 390.20(†113)
1133.4.3	0.217.13	²⁰⁸ At(1.63 h)	686.527(98), 660.040(89), 177.595(48.6)
• 1133.44.5	0.187.16	¹⁶⁹ Lu(34.06 h)	960.622(23.4), 191.2137(20.6), 1449.74(9.92)
1133.5.4	0.19.4	⁹⁰ Br(1.92 s)	707.05(38.0), 1362.32(11.2), 655.17(7.7)
1133.5.2	0.110.24	¹⁰⁹ Ru(34.5 s)	206.29(22.0), 225.98(19.6), 1929.05(13.7)
1133.5.3	5.9.6	¹³² Sb(2.79 m)	973.9(99), 696.8(86), 989.6(14.9)
1133.6.6	0.24	¹¹⁶ Ag(2.68 m)	513.39(76), 2478.5(12), 699.58(11)
• 1133.60.10	1.03.3	¹⁷⁰ Lu(2.00 d)	84.2551(4.256), 1280.25(3.450), 2041.88(1.434)
1133.66.3	0.28.3	²¹⁴ Bi(19.9 m)	609.312(44.8), 1764.494(15.36), 1120.287(14.80)
1133.7.4	†0.19.3	¹⁸⁴ Ir(3.09 h)	263.97(†100), 119.80(†45), 390.38(†38)
1133.73.21	0.81.9	¹⁹⁵ Pb(15.0 m)	383.64(106.9), 394.21(44), 878.40(24.2)
• 1133.77.20	0.429.25	¹⁹⁰ Ir(11.78 d)	186.718(52.4), 605.24(39.9), 518.55(34.0)
1133.8.2	0.140.16	²²⁴ Fr(3.30 m)	215.985(33.1), 131.613(16.3), 836.90(9.8)
1134.1	>0.038	¹⁶² Ho(15.0 m)	80.660(8.0), 1319.3(3.8), 1372.8(0.81)
1134.08.5	0.185.25	¹⁴⁶ La(6.27 s)	258.47(64), 924.58(7.45), 702.28(6.43)
1134.2.5	0.4.2	¹³⁰ Sb(39.5 m)	793.53(100), 839.49(100), 331.05(78)
• 1134.2.4	0.010.5	¹³¹ Te(30 h)	773.67(49.9), 852.21(27.0), 793.75(18.10)
1134.3.3	0.11.4	¹⁵⁰ Tb(3.48 h)	638.05(72), 496.3(14.8), 792.5(4.39)
1134.44.6	0.21.3	²⁰² Bi(1.72 h)	960.67(99), 422.18(83.7), 657.49(60.6)
1134.5.3	>0.38	⁷⁴ Ga(8.12 m)	595.847(91), 2353.46(44.5), 608.353(14.3)
1134.5.4	0.12.4	¹²⁷ Sn(2.10 h)	1114.3(39), 1095.6(20), 823.1(10.9)
1134.55.18	†21.3	¹⁶⁴ Tm(2.0 m)	91.40(†1500), 1154.66(†366), 768.91(†279)
1134.6.3	†2.5.3	¹³⁸ Pm(3.24 m)	520.9(†100), 729.0(†37.8), 493.1(†21.6)
1134.6.5	0.017.5	¹⁴³ Ba(14.33 s)	211.475(25), 798.79(15.6), 980.45(11.55)
1134.6.3	0.089.22	²⁰⁷ At(1.80 h)	814.41(44.5), 588.33(19.2), 300.654(12.8)
1134.77.10	0.0275.11	⁷⁷ Ge(11.30 h)	264.44(54), 211.03(30.8), 215.50(28.6)
1134.8.4	0.22.5	¹⁴¹ Xe(1.73 s)	909.23(24.0), 118.705(16.1), 105.937(9.8)
1134.88.15	0.33.11	¹³³ Te(55.4 m)	912.671(55.28), 647.51(19.4), 863.955(15.6)
1135.0.3	6.8.10	⁵² Sc(8.2 s)	1049.7(98), 1267.9(39), 1032.3(13.7)
1135.0.3	0.22.4	¹⁷⁵ Tm(15.2 m)	514.868(65), 941.23(15), 363.942(12.7)
1135.0.2	†5.2.5	¹⁸⁹ Hg(7.6 m)	320.99(†100), 78.21(†63), 565.42(†48)
1135.04.8	7.8.4	¹⁹⁹ Pb(90 m)	366.90(44.2), 353.39(9.5), 720.24(6.5)
• 1135.1		¹⁷⁰ Lu(2.00 d)	84.2551(4.256), 1280.25(3.450), 2041.88(1.434)
• 1135.1.3	0.049.3	²⁴⁰ Am(50.8 h)	987.76(73.2), 888.80(25.1), 98.860(1.5)
1135.2.10	0.012.12	¹²⁷ Ba(12.7 m)	180.8(12), 114.8(9.3), 66.06(2.12)
1135.2.2	0.80.15	¹³⁹ Sm(2.57 m)	273.7(37), 306.7(28.5), 596.3(8.0)
1135.2.3	1.60.11	¹⁴⁹ Dy(4.20 m)	100.8(15.2), 789.4(11.8), 1776.3(11.1)
1135.2.2	2.2.5	¹⁵² Ho(49.5 s)	647.2(92), 613.8(88.4), 683.3(88)
1135.2.4	0.00038.8	¹⁶¹ Gd(3.66 m)	360.94(0.59), 314.92(22.7), 102.315(13.9)
1135.2.3	0.21.3	²⁰⁹ Rn(28.5 m)	408.32(50.3), 745.78(22.8), 337.45(14.5)
1135.24.15	0.0101.16	²²⁸ Ac(6.15 h)	911.205(26.6), 968.971(16.2), 338.322(11.3)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
1135.28 9	0.34 3	¹⁶³ Tm(1.810 h)	104.320(18.6), 69.229(11.6), 241.305(10.9)
1135.3 1	1.18 4	¹⁴⁹ Tb(4.118 h)	352.24(29.43), 164.98(26.4), 388.57(18.37)
1135.3 5	0.11 4	¹⁵⁰ Tb(3.48 h)	638.05(72), 496.3(14.8), 792.5(4.39)
1135.4 4	0.09 5	¹⁸⁵ Au(4.25 m)	310.6(13), 243.1(6.6), 77.7(6)
1135.60 25	0.55 11	¹⁵⁹ Tm(9.13 m)	38.35(5.8), 84.8(5.8), 271.30(5.1)
1135.68 11		¹⁰⁶ In(6.2 m)	632.66(100), 861.16(92), 997.87(48)
1135.68 11		¹⁰⁶ In(5.2 m)	632.66(92), 1714.90(17.1), 861.16(10.6)
1135.70 10	2.0 2	¹²⁶ In(1.60 s)	1141.11(55.9), 3344.61(21.6), 969.61(14.9)
1135.8 1	0.124 25	¹²⁹ La(11.6 m)	278.6(25), 110.5(16.9), 457.0(8.0)
1135.81 7	0.66 6	¹⁷⁴ Ta(1.05 h)	206.50(58), 91.00(16.0), 1205.92(4.9)
1135.85 12	0.080 4	¹³¹ La(59 m)	108.081(25.0), 417.783(18.0), 365.162(16.9)
1135.9 3	0.067 24	¹³³ Ce(4.9 h)	477.22(39), 510.36(20.7), 58.39(19.2)
1135.94 9	0.0021 8	¹⁴⁹ Nd(1.728 h)	211.309(25.9), 114.314(19.2), 270.166(10.7)
1135.96 4	3.28 16	⁸⁰ Ga(1.697 s)	659.14(78.0), 1083.47(48.4), 1109.36(18.6)
1136.0		⁸⁰ Ge(29.5 s)	265.36(27.0), 110.4(6.5), 1564.3(4.9)
1136 1	0.0042 8	⁸¹ Rb(30.5 m)	49.56(0.78), 643.6(0.115), 1194.9(0.112)
1136.0 1	0.0202 17	¹²¹ I(2.12 h)	212.189(84), 532.08(6.07), 598.74(1.47)
1136.0 3	1.87 18	¹²⁹ In(0.61 s)	2118.0(45), 1865.0(32), 769.3(9.1)
1136.00 2	3.01 14	¹³² I(2.295 h)	667.718(99), 772.60(75.6), 954.55(17.6)
• 1136.00 2	0.476 13	¹³² Cs(6.479 d)	667.718(98), 630.19(0.95), 505.79(0.73)
1136 1	0.42 4	¹³⁷ Pm(2.4 m)	177.5(40.29), 108.6(35), 233.6(29.57)
• 1136.0 6	0.009 4	¹⁵³ Tb(2.34 d)	212.038(31.0), 170.504(6.8), 109.758(6.4)
1136 1	0.32 11	¹⁶⁴ Tb(3.0 m)	168.838(25.4), 754.80(23.3), 215.07(21)
1136 2	†1.3	²⁴⁴ Bk(4.35 h)	891.5(†100), 217.6(†88), 921.5(†19)
1136.06 30	0.043	¹³⁷ I(24.5 s)	1218.00(12.8), 601.05(4.80), 1302.64(4.42)
1136.1 3	0.077 14	⁹³ Kr(1.286 s)	253.42(41.2), 323.89(24.1), 266.83(20.6)
• 1136.1	0.0074 10	¹⁵⁴ Eu(8.593 y)	123.071(40.79), 1274.436(35.19), 723.304(20.22)
1136.160 359.2 5		¹³⁴ I(52.6 m)	847.025(95.4), 884.090(64.9), 1072.547(15.0)
1136.4 4	0.0116 23	⁸¹ Rb(4.576 h)	190.38(64.0), 446.15(23.2), 510.31(5.3)
1136.45 15	0.127 10	¹¹⁵ Sb(32.1 m)	497.358(98), 489.27(1.3), 1236.52(0.58)
1136.46 9	1.03 5	¹⁴⁷ Pr(13.4 m)	77.9921(15), 314.675(13.2), 641.380(10.0)
1136.5 4	†11	¹⁵⁴ Nd(25.9 s)	151.703(†800), 799.55(†600), 180.693(†510)
1136.5 20	0.26 4	¹⁹⁶ Tl(1.84 h)	426.0(84), 610.5(11.9), 635.5(9.8)
1136.5 3	0.068 9	²⁰⁹ At(5.41 h)	545.0(91), 781.9(83.5), 790.2(63.5)
1136.56 6	0.0046 11	²⁰⁵ Hg(5.2 m)	203.750(2.2), 415.70(0.0130), 1218.96(0.0062)
1136.58 8	0.201 10	¹⁵¹ Nd(12.44 m)	116.80(43.4), 255.68(16.4), 1180.89(14.8)
1136.6	0.11	⁹⁵ Sr(23.90 s)	685.6(23), 2717.3(4.6), 2933.1(4.1)
1136.6	0.026 18	¹⁴⁹ Tb(4.118 h)	352.24(29.43), 164.98(26.4), 388.57(18.37)
1136.63 11	0.200 14	⁸¹ Sr(22.3 m)	153.54(33.8), 147.76(30.1), 443.34(17.5)
• 1136.75 7	7.66 7	¹¹⁹ Te(4.70 d)	153.59(66), 1212.73(66), 270.53(28.0)
1136.77 20	0.194 20	⁹³ Sr(7.423 m)	590.238(67), 875.73(24.1), 888.13(21.8)
1136.8	0.037 9	¹⁴¹ Ba(18.27 m)	190.328(46.0), 304.194(25.4), 276.948(23.4)
1136.8 3	0.37 3	¹⁹⁸ Tl(5.3 h)	411.8044(82), 675.8874(11), 636.4(10.1)
1136.81 14	1.04 8	⁹¹ Kr(8.57 s)	108.788(43.5), 506.592(19.1), 612.87(7.7)
1136.85 19	0.43	¹⁰⁶ Rh(131 m)	511.842(85), 1045.83(30.4), 717.24(28.9)
• 1136.85 19	0.23 3	¹⁰⁶ Ag(8.28 d)	511.842(88), 1045.83(29.6), 717.24(28.9)
1136.87 12	7.0 7	⁷² Br(78.6 s)	862.03(70), 1316.70(17.3), 454.70(13.1)
1136.88 6	12.3 14	¹⁶⁸ Lu(6.7 m)	198.82(28), 979.22(20), 896.12(15)
1137.0 2	0.145 12	⁶⁵ Ga(15.2 m)	115.09(54), 61.20(11.4), 153.0(8.9)
1137 1	0.12 6	¹³³ Te(12.5 m)	312.072(62), 407.63(27.1), 1333.21(10.67)
1137.0 3	0.18 3	¹⁴² Cs(1.70 s)	359.598(27.2), 1326.46(12.92), 966.89(9.0)
1137.0 4	0.14	¹⁶⁷ Lu(51.5 m)	29.66(14.4), 239.22(8.6), 213.19(3.6)
1137.0 5	5.5 3	¹⁹⁹ Bi(27 m)	560.1(22.0), 424.85(22), 841.7(11)
1137.0 4	0.0140 20	²⁴⁰ Np(7.22 m)	554.60(20.9), 597.40(11.7), 1496.9(1.33)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
• 1137.0 4	0.0073 20	²⁴⁰ Am(50.8 h)	987.76(73.2), 888.80(25.1), 98.860(1.5)
• 1137.05 30	0.157 5	¹⁷⁰ Lu(2.00 d)	84.2551(4.256), 1280.25(3.450), 2041.88(1.434)
1137.07 4	0.68 3	⁸¹ Ga(1.221 s)	216.47(37.4), 828.26(22.1), 711.18(17.6)
1137.09 10	2.14 20	¹⁴⁰ Xe(13.60 s)	805.52(20), 1413.66(12.2), 1315.05(8.2)
1137.10 10	0.374 20	¹⁶³ Tm(1.810 h)	104.320(18.6), 69.229(11.6), 241.305(10.9)
1137.1 1	1.30 5	²⁴² Np(2.2 m)	735.93(5), 780.44(2.76), 1473.1(2.34)
1137.14 3	1.12 25	¹⁰⁸ In(58.0 m)	875.46(100), 632.96(100), 242.84(41)
1137.2 2	0.038 9	¹⁰⁵ Cd(55.5 m)	961.84(4.69), 346.870(4.20), 1302.459(3.98)
1137.2 2	†1	¹³⁹ I(2.29 s)	527.7(†100), 571.2(†98), 536.6(†67)
1137.2 4	0.023 8	¹⁶⁸ Ho(2.99 m)	741.356(36.6), 821.164(34.5), 815.990(18.6)
1137.24 5	3.88 20	⁹¹ Rb(58.4 s)	93.628(33.7), 2564.19(12.5), 3599.67(10.4)
1137.28 11	0.0170 14	¹⁵¹ Tb(17.609 h)	287.357(28.3), 251.863(26.3), 108.088(24.3)
1137.3 10	0.21 9	⁸⁸ Nb(7.8 m)	1057.01(89.3), 1082.53(53.9), 399.41(45.7)
1137.3 5	0.28 17	¹³³ Te(55.4 m)	912.671(55.28), 647.51(19.4), 863.955(15.6)
1137.3 10	0.23 3	²²⁸ Fr(39 s)	473.7(10.2), 474.0(7.6), 410.40(6.3)
1137.3 5	0.010	²⁴⁹ Es(102.2 m)	379.5(40.4), 813.2(9.2), 375.1(3.3)
1137.34 15	†0.65 4	⁷¹ Se(4.74 m)	147.50(†211), 1095.26(†43.6), 830.33(†43.2)
• 1137.357 160.00042 27		¹⁶⁸ Tm(93.1 d)	198.241(52.39), 815.990(48.99), 447.515(23.05)
1137.4 7	0.17 4	¹⁵⁶ Ho(56 m)	266.35(54.7), 137.83(51), 366.25(10.73)
1137.45 35	0.128 14	¹⁴⁰ Cs(63.7 s)	602.345(71.1), 908.25(11.6), 1200.25(6.39)
• 1137.5 5	0.0029	¹²⁵ Sn(9.64 d)	1067.10(10), 1089.15(4.59), 822.48(4.28)
1137.5 3	0.013 9	¹⁵² Eu(9.274 h)	841.586(14.6), 963.37(12.01), 121.7824(7.21)
1137.5 7	0.22 4	²⁰⁸ At(1.63 h)	686.527(98), 660.040(89), 177.595(48.6)
1137.52 10	0.36 5	¹³⁹ Xe(39.68 s)	218.59(56), 296.53(21.7), 174.97(11.3)
1137.6 7	0.48 16	¹²¹ Ag(0.78 s)	314.55(32.1), 353.43(19.9), 500.61(9.3)
1137.6 5	0.3 2	¹³⁰ Sb(39.5 m)	793.53(100), 839.49(100), 331.05(78)
1137.6 2	†19.8 14	¹⁵² Tb(17.5 h)	344.281(†1500), 586.294(†223), 271.135(†203)
• 1137.66 13	0.042 3	¹⁴⁶ Eu(4.59 d)	747.2(98), 633.03(43), 634.07(37)
1137.7 1	0.120 9	⁷⁹ Rb(22.9 m)	688.1(23), 182.77(19.2), 143.41(13.9)
1137.7 10	0.16 3	²⁰¹ Bi(108 m)	629.1(24.0), 936.2(11.3), 1014.1(10.7)
1137.74 30	0.19 9	²⁰⁴ At(9.2 m)	684.341(95), 516.318(90), 426.253(67.5)
1137.8 2	0.057 18	¹⁵⁷ Er(18.65 m)	53.05(24), 391.32(14.2), 121.57(10.1)
1137.9	0.30	⁴³ Ar(5.37 m)	975.0(34), 738.1(15), 1439.5(13)
1137.9 1	0.0187 12	¹²⁶ Cs(1.64 m)	388.633(41), 491.243(5.0), 925.24(4.56)
1138.0 3	0.20 3	⁹³ Rb(5.84 s)	432.61(17.4), 986.05(6.8), 213.429(6.7)
1138.0 5	0.027 8	¹¹¹ Sn(35.3 m)	1152.98(2.7), 1914.70(1.99), 761.97(1.48)
1138.0 3	†0.24 7	¹⁵⁸ Ho(11.3 m)	218.21(†100.0), 98.91(†70), 945.7(†37)
1138.0 3	0.21 3	¹⁸³ Au(42.0 s)	161.18(9.4), 214.13(5.9), 313.08(5.0)
1138 3	0.008 3	¹⁸⁵ Ta(49.4 m)	177.59(25.7), 173.68(22.6), 65.86(3.9)
1138.1 3	1.8	¹⁴⁰ Sm(14.82 m)	225.5(>10), 225.4(10), 140.0(5.0)
1138.1 4	0.16 6	²⁰³ Po(36.7 m)	908.64(55), 1090.95(19.2), 893.49(18.7)
1138.1 2		²³⁸ Pa(2.3 m)	1015.3(†<100), 1014.6(†<100), 635.18(†88)
1138.2 5	0.65 17	⁴⁵ Ar(21.48 s)	1020.04(34.0), 3703.2(33.3), 61.35(25.0)
1138.2 4	0.29 15	¹³⁹ Sm(2.57 m)	273.7(37), 306.7(28.5), 596.3(8.0)
1138.229 260.300 8		¹²⁵ Xe(16.9 h)	188.418(54), 243.378(30.1), 54.968(6.81)
1138.26 8	0.000234	¹⁷⁶ Lu(3.635 h)	88.34(0.55640), 1159.28(0.00139), 1061.61(0.000762)
1138.26 8	0.7	¹⁷⁶ Ta(8.09 h)	1159.28(25), 88.34(12), 1224.93(6)
1138.27 17	0.34 3	¹⁶⁴ Lu(3.14 m)	123.3(34.0), 740.52(12.2), 262.22(10.8)
1138.3 3	0.178 23	¹⁵⁸ Eu(45.9 m)	944.09(25), 977.131(13.6), 79.5104(11)
1138.40 30	0.47 15	¹²⁴ In(3.17 s)	1131.64(68), 3214.15(21.5), 997.79(21.1)
• 1138.4 5	0.0014 4	¹⁴⁸ Eu(54.5 d)	550.284(98.5), 629.987(71.9), 611.293(20.5)
1138.4 4	†0.15 3	¹⁸⁴ Ir(3.09 h)	263.97(†100), 119.80(†45), 390.38(†38)
1138.5 5	0.012 6	⁸⁹ Rb(15.15 m)	1031.94(58), 1248.19(42.6), 2196.02(13.3)
1138.5 3	0.94 19	¹⁵⁴ Ho(3.10 m)	334.6(94), 412.4(79), 477.1(55)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
1138.5 4	20.5 9	¹⁷⁰ Ho(2.76 m)	258.2(37.0), 931.3(36.1), 181.6(23.8)
1138.5 5	0.042 7	²⁴⁵ Pu(10.5 h)	327.428(25.4), 560.13(5.4), 308.222(4.9)
1138.6 9	0.38 23	¹⁰⁴ In(1.8 m)	658.0(100), 834.1(99), 878.1(29.4)
• 1138.65 10	0.358 11	¹⁷⁰ Lu(2.00 d)	84.2551(4.256), 1280.25(3.450), 2041.88(1.434)
1138.7 3	1.5 6	¹⁴⁰ Pm(9.2 s)	773.74(5.0), 477.1(2.6), 1204.8(1.9)
1138.71 15	2.09 20	¹⁰⁶ In(6.2 m)	632.66(100), 861.16(92), 997.87(48)
• 1138.80 10	0.070 4	¹⁵³ Tb(2.34 d)	212.038(31.0), 170.504(6.8), 109.758(6.4)
1138.88 10	6.0 4	⁹⁴ Y(18.7 m)	918.74(56), 550.88(4.9), 1671.41(2.46)
1138.9 3	†4.2 2	¹¹⁴ Te(15.2 m)	90.28(†100), 83.8(†67), 1417.6(†32)
1138.9 1	0.81 8	¹⁴³ Gd(112 s)	271.94(84), 588.00(15.7), 798.89(10.7)
1139.0 2	0.062 9	¹⁵¹ Nd(12.44 m)	116.80(43.4), 255.68(16.4), 1180.89(14.8)
• 1139 1	0.0013 4	¹⁵² Eu(13.542 y)	121.7824(28.4), 1408.011(20.87), 964.131(14.34)
1139.0 5	0.014 6	¹⁶⁸ Ho(2.99 m)	741.356(36.6), 821.164(34.5), 815.990(18.6)
1139.00 20	0.076 22	²⁰⁷ At(1.80 h)	814.41(44.5), 588.33(19.2), 300.654(12.8)
1139.1	†4.1	¹⁴⁴ Gd(4.5 m)	333.3(†100), 2432.6(†94.8), 629.5(†32.4)
1139.1 7	0.24 4	²⁰⁸ At(1.63 h)	686.527(98), 660.040(89), 177.595(48.6)
1139.14 36	0.055 10	¹⁷⁴ Ta(1.05 h)	206.50(58), 91.00(16.0), 1205.92(4.9)
1139.17 18	0.193 17	⁹³ Kr(1.286 s)	253.42(41.2), 323.89(24.1), 266.83(20.6)
1139.20 29	1.4 3	¹⁰⁵ In(5.07 m)	131.37(41), 260.21(15.7), 604.11(9.2)
1139.2 2	0.23 3	¹⁰⁹ Ru(34.5 s)	206.29(22.0), 225.98(19.6), 1929.05(13.7)
1139.2 10	0.17 4	¹²⁹ Sb(4.40 h)	812.8(43), 914.6(20.0), 544.7(17.9)
1139.2 6	0.20 6	¹⁵⁹ Er(36 m)	624.5(33), 649.1(23.4), 205.92(9.7)
1139.2 3	1.45 5	¹⁹⁰ Au(42.8 m)	295.78(71.0), 301.82(23.4), 597.67(9.4)
• 1139.28 5	0.091 5	¹⁶⁹ Lu(34.06 h)	960.622(23.4), 191.2137(20.6), 1449.74(9.92)
1139.3		⁷⁵ Rb(19.0 s)	178.98(<63), 178.97(>51), 187.21(8.7)
1139.35 10	6.1 4	¹²¹ Cd(8.3 s)	2059.41(21.0), 1020.89(18.9), 987.81(13.6)
1139.4 2	0.196 17	¹⁴³ La(14.2 m)	620.3(2.34), 643.75(1.55), 621.4(1.52)
1139.43 3	0.088 8	¹³⁵ Ce(17.7 h)	265.56(41.8), 300.07(23.5), 606.76(18.8)
• 1139.461 190.800 4		⁷¹ As(65.28 h)	174.954(82.00), 1095.490(4.08), 499.876(3.624)
1139.48 5	0.56 6	²⁰⁴ Bi(11.22 h)	899.15(98), 374.72(82), 984.02(59)
1139.5	0.035 9	¹⁴⁹ Tb(4.118 h)	352.24(29.43), 164.98(26.4), 388.57(18.37)
1139.5 1	0.040 6	¹⁶⁷ Yb(17.5 m)	113.34(55.3), 106.18(22.5), 176.25(21)
1139.6 7	0.06 4	¹¹¹ Pd(5.5 h)	70.44(8.3), 391.25(5.4), 632.80(3.6)
• 1139.6 5	0.019 5	¹⁴⁸ Eu(54.5 d)	550.284(98.5), 629.987(71.9), 611.293(20.5)
1139.7 2	6.49 44	⁴⁸ Mn(158.1 ms)	752.15(99.7), 1106.25(39.2), 3676.2(30.4)
1139.7 4	0.044 9	⁸⁷ Br(55.60 s)	1419.71(22.0), 1476.04(7.9), 1577.60(6.0)
1139.7 3	†0.40 4	¹⁰⁴ Nb(0.92 s)	192.2(†100), 368.4(†20), 620.2(†19.2)
1139.7 4	†0.36 12	¹⁸⁸ Au(8.84 m)	265.63(†100), 340.04(†23.9), 605.5(†16.3)
1139.8 1	1.10 9	⁷⁵ Zn(10.2 s)	228.67(28.9), 432.29(20.2), 155.94(17.2)
1139.9 5	0.21 3	¹⁰⁷ In(32.4 m)	204.97(47), 505.51(11.9), 320.92(10.2)
1139.9 2	2.4 5	¹⁵² Ho(49.5 s)	647.2(92), 613.8(88.4), 683.3(88)
1139.9 5	†0.8 3	¹⁸⁵ Pt(33.0 m)	229.60(†100), 135.3(†80), 197.4(†74)
1139.95 8	0.20 3	⁷¹ Zn(3.96 h)	386.28(93), 487.38(62), 620.18(57)
1140.0 4	0.163 19	¹⁶⁴ Tm(5.1 m)	208.08(14.6), 314.97(10), 240.49(7.5)
1140.06 11	1.89 18	¹⁹⁷ Pb(8 m)	385.85(50), 761.14(13.3), 375.48(12.8)
1140.079 230.0103 5		¹²⁸ I(24.99 m)	442.901(17), 526.557(1.58), 969.458(0.404)
1140.079 231.168 11		¹²⁸ Cs(3.66 m)	442.901(26.8), 526.557(2.41), 969.458(0.630)
1140.1 6	0.18 5	¹⁵⁶ Ho(56 m)	266.35(54.7), 137.83(51), 366.25(10.73)
1140.2 1	†212 18	¹⁰⁰ Rh(4.6 m)	539.59(†5900), 687.0(†3500), 1827.2(†1410)
1140.2 3	0.12 4	¹¹⁹ Ag(2.1 s)	626.4(13), 366.2(12.1), 399.1(10.9)
1140.2 2	0.41 3	¹⁴⁶ La(6.27 s)	258.47(64), 924.58(7.45), 702.28(6.43)
1140.2 2	10 1	¹⁵¹ Tm(4.13 s)	801.6(73), 2115.8(13), 1548.6(10)
1140.2 3	0.115 20	¹⁵³ Dy(6.4 h)	80.723(11.10), 213.754(10.90), 99.659(10.51)
1140.2 3	0.038 6	¹⁸⁶ Hg(1.38 m)	112.1(63), 251.5(55), 191.6(3.7)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
1140.3 4	1.00 17	¹²¹ Cs(155 s)	153.9(15.2), 239.6(7.7), 427.1(3.63)
1140.3 4	0.78 13	¹²¹ Cs(122 s)	179.4(30.2), 196.0(24.1), 459.7(12.0)
1140.3 1	0.018 8	¹²⁹ Ba(2.23 h)	6.545(23.7), 214.30(13.4), 220.83(8.54)
1140.36 5	0.00134 8	¹⁶⁵ Dy(2.334 h)	94.700(3.58), 361.68(0.84), 633.415(0.568)
1140.37 14	0.34 5	¹⁸³ Ir(58 m)	392.52(10.4), 228.70(6.9), 87.67(5.6)
1140.38 9	2.61 6	¹⁹² Au(4.94 h)	316.50791(58.0), 295.95827(22.3), 2236.89(5.6)
• 1140.404 210.150 10		⁵⁶ Co(77.27 d)	846.771(100), 1238.282(67.6), 2598.459(17.28)
1140.47 20	0.54 8	¹⁹⁵ Tl(1.16 h)	563.52(10.5), 884.47(10.0), 1363.88(8.4)
1140.50 6	0.89 5	⁹⁰ Rb(258 s)	831.69(94), 1375.36(16.7), 3317.00(14.4)
1140.50 6	0.046 3	⁹⁰ Rb(158 s)	831.69(28), 1060.70(6.69), 4365.90(5.6)
1140.5 2	1.9 16	¹⁰³ Zr(1.3 s)	248(100), 164.05(94), 126.30(84)
1140.50 7	1.0 7	¹⁴¹ Cs(24.94 s)	48.53(7.90), 561.63(4.7), 1194.02(3.95)
1140.5 3	0.80 3	¹⁷⁷ W(135 m)	115.65(50), 426.98(13.2), 1036.4(10.3)
1140.5 1	0.56 6	²⁰⁴ Bi(11.22 h)	899.15(98), 374.72(82), 984.02(59)
• 1140.51 5	0.283 6	¹⁵⁶ Eu(15.19 d)	811.79(9.70), 88.9667(8.4), 1230.68(7.98)
1140.55 3	29 3	¹²² In(1.5 s)	2759.13(3.1), 1013.34(2.7), 2065.62(1.97)
1140.55 3	98 3	¹²² In(10.3 s)	1001.58(50.7), 1190.58(20.5), 1163.61(15.4)
1140.55 3	100 10	¹²² In(10.8 s)	1001.58(98.4), 103.74(81), 163.48(66)
• 1140.55 3	0.7	¹²² Sb(2.70 d)	
1140.59 26	0.11 3	¹⁴¹ Xe(1.73 s)	909.23(24.0), 118.705(16.1), 105.937(9.8)
1140.60 9	0.176 20	²⁰⁸ Rn(24.35 m)	426.78(7.07), 251.05(5.02), 350.026(3.34)
1140.7 11	0.012 5	⁷⁹ Rb(22.9 m)	688.1(23), 182.77(19.2), 143.41(13.9)
• 1140.711 9	0.2368 21	¹⁵⁴ Eu(8.593 y)	123.071(40.79), 1274.436(35.19), 723.304(20.22)
1140.711 9	1.39 12	¹⁵⁴ Tb(9.4 h)	123.071(30), 247.925(22.1), 540.18(20)
1140.711 9	2.3 3	¹⁵⁴ Tb(22.7 h)	247.925(79), 346.643(69), 1419.81(46)
1140.75 4	0.0010 4	²⁰⁵ Hg(5.2 m)	203.750(2.2), 415.70(0.0130), 1218.96(0.0062)
1140.78 9	0.096 5	⁸⁵ Br(2.90 m)	802.41(2.56), 924.63(1.63), 919.06(0.65)
1140.79 20	1.65 13	¹⁰⁰ Cd(49.1 s)	936.55(66), 139.71(6.7), 582.5(6.3)
1140.8 1	0.127 3	⁹¹ Sr(9.63 h)	1024.3(33), 749.8(23.61), 652.9(8.0)
1140.8 3	0.115 20	¹⁵³ Dy(6.4 h)	80.723(11.10), 213.754(10.90), 99.659(10.51)
1140.9 4	0.07 3	⁹⁹ Nb(2.6 m)	97.785(7), 253.50(3.64), 2641.3(3.64)
1140.9 3	†0.8 2	¹³⁸ Pm(3.24 m)	520.9(†100), 729.0(†37.8), 493.1(†21.6)
1140.9 2	†0.18 5	¹⁶⁰ Ho(5.02 h)	728.18(†100), 879.383(†65.9), 962.317(†59.1)
1141.0 10	0.41 5	⁹⁸ Rh(8.7 m)	652.43(94), 745.36(5.3), 1817.0(4.7)
1141 1	>0.35	¹³⁷ Pm(2.4 m)	177.5(40.29), 108.6(35), 233.6(29.57)
• 1141.0 5	0.024 12	¹⁹⁴ Au(38.02 h)	328.455(60), 293.545(10.2), 1468.91(6.3)
1141	0.050 21	¹⁹⁵ Tl(1.16 h)	563.52(10.5), 884.47(10.0), 1363.88(8.4)
1141 2	†1.8	²⁴⁴ Bk(4.35 h)	891.5(†100), 217.6(†88), 921.5(†19)
1141.11 5	55.9 40	¹²⁶ In(1.60 s)	3344.61(21.6), 969.61(14.9), 3886.82(4.7)
1141.11 5	100 7	¹²⁶ In(1.64 s)	908.58(99), 111.79(88), 1636.50(29.6)
1141.2 2	†2.5 5	¹³¹ Sn(56.0 s)	1226.03(†100), 450.03(†90), 798.50(†86)
1141.2 2		¹⁵⁷ Er(18.65 m)	53.05(24), 391.32(14.2), 121.57(10.1)
1141.26 15	5.3 3	¹⁵⁰ Pr(6.19 s)	130.2(32), 722.5(7.0), 852.7(6.1)
• 1141.30 20	0.511 16	¹⁷⁰ Lu(2.00 d)	84.2551(4.256), 1280.25(3.450), 2041.88(1.434)
1141.3 1	0.33 3	²⁰⁹ At(5.41 h)	545.0(91), 781.9(83.5), 790.2(63.5)
1141.33 6	1.28 3	⁸⁸ Kr(2.84 h)	2392.11(34.6), 196.301(25.98), 2195.842(13.18)
1141.4 4	2.0 4	¹³⁰ Sb(39.5 m)	793.53(100), 839.49(100), 331.05(78)
1141.44 5	0.153 23	¹⁵⁸ Eu(45.9 m)	944.09(25), 977.131(13.6), 79.5104(11)
1141.5 41	0.10 8	¹⁴⁰ Xe(13.60 s)	805.52(20), 1413.66(12.2), 1315.05(8.2)
• 1141.6 8	0.37 7	¹²⁷ Sb(3.85 d)	685.7(37), 473.0(25.7), 783.7(15.0)
1141.6 4	2.0 8	¹²⁹ Sn(6.9 m)	1161.31(56.0), 1128.44(50), 760.8(16.8)
1141.6 2		¹³¹ Sn(56.0 s)	3267.5, 2470.5, 2039.25
1141.6 2	†10.0 20	¹³¹ Sn(56.0 s)	1226.03(†100), 450.03(†90), 798.50(†86)
1141.6 3	0.22 4	¹⁸³ Au(42.0 s)	161.18(9.4), 214.13(5.9), 313.08(5.0)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
1141.64 9	0.51 3	¹³⁸ Xe(14.08 m)	258.411(31.5), 434.562(20.3), 1768.26(16.7)
1141.7 8	4.0 3	⁶⁵ Co(1.20 s)	310.6(2.90), 963.7(2.6), 1210.9(1.62)
1141.7 3	0.77 19	¹²⁸ Sb(10.4 m)	753.82(96.4), 743.22(96), 314.12(89)
1141.7 5	4.0 14	¹⁷² Ho(25 s)	133.6(36), 178.0(23), 757.2(18)
1141.77 8	0.0026 10	¹⁴⁹ Nd(1.728 h)	211.309(25.9), 114.314(19.2), 270.166(10.7)
1141.8 3	2.01 14	¹⁵¹ Dy(17.9 m)	386.10(19.4), 49.46(18.0), 546.31(14.3)
1141.9 5	0.58 10	¹¹⁷ Ag(5.34 s)	135.4(48), 386.8(39.9), 298.1(21.1)
1141.91 11	0.0346 21	⁶² Zn(9.186 h)	596.56(26), 40.84(25.5), 548.35(15.3)
• 1141.96 10	0.041 5	¹⁶⁹ Lu(34.06 h)	960.622(23.4), 191.2137(20.6), 1449.74(9.92)
1142.0 2	1.5 4	¹⁰⁸ In(58.0 m)	875.46(100), 632.96(100), 242.84(41)
1142.0 3	0.0042 17	¹²¹ I(2.12 h)	212.189(84), 532.08(6.07), 598.74(1.47)
1142.0 4	0.19 4	¹²⁷ Sn(2.10 h)	1114.3(39), 1095.6(20), 823.1(10.9)
1142.0 5	6	¹⁴⁶ La(10.0 s)	258.47(93), 409.86(81), 514.75(31)
1142.0 5	7.0 4	¹⁶⁴ Ta(14.2 s)	211.05(74), 376.8(22), 605.0(14)
1142.02 2	5.6 6	¹³⁰ Sb(6.3 m)	839.49(100), 793.53(86), 182.36(41)
1142.2 3	0.14 3	⁹⁵ Rb(377.5 ms)	352.02(49), 204.02(15.1), 680.7(14.8)
1142.2 3	0.037 9	⁹⁸ Nb(51.3 m)	787.374(93), 722.645(73.8), 1168.830(17.8)
1142.2 2	0.153 13	¹⁰³ Ag(65.7 m)	118.72(31.2), 148.193(28.3), 266.86(13.3)
1142.2 1	0.111 11	¹⁰⁷ Ru(3.75 m)	194.05(9.9), 847.93(5.3), 462.61(3.66)
1142.2 5	0.07 3	¹⁴⁶ Ba(2.22 s)	140.7(20.2), 251.2(19.6), 121.2(14.2)
1142.25 17	†1.06 8	¹⁸⁴ Ir(3.09 h)	263.97(†100), 119.80(†45), 390.38(†38)
1142.3 10	0.10 3	⁸⁶ Y(14.74 h)	1076.64(83), 627.72(32.6), 1153.01(30.5)
1142.3 2	0.33 5	¹⁰⁴ Tc(18.3 m)	358.0(89), 530.5(15.6), 535.1(14.7)
1142.35 7	2.79 14	⁹² Sr(2.71 h)	1383.93(90), 953.31(3.52), 430.49(3.28)
• 1142.37 10	0.111 5	²⁰⁶ Bi(6.243 d)	803.10(99), 881.01(66.2), 516.18(40.7)
1142.4 7	0.12 6	¹¹¹ Pd(5.5 h)	70.44(8.3), 391.25(5.4), 632.80(3.6)
1142.43 3	1.67 11	¹¹⁷ Cd(2.49 h)	273.349(28), 1303.27(18.4), 344.459(17.9)
1142.45 3	0.1092 25	¹⁶⁶ Tm(7.70 h)	778.817(18.9), 2052.36(17.2), 184.410(16.1)
1142.5 12	0.36	⁴⁵ Ar(21.48 s)	1020.04(34.0), 3703.2(33.3), 61.35(25.0)
1142.5 3	3.5 4	¹⁹⁰ Tl(3.7 m)	416.4(91), 625.4(82), 731.1(37)
1142.5 3	3.0 3	¹⁹⁰ Tl(2.6 m)	416.4(79), 625.4(11.1), 683.5(8.7)
1142.51 5	0.81 3	¹⁶³ Tm(1.810 h)	104.320(18.6), 69.229(11.6), 241.305(10.9)
• 1142.52 10	0.37 7	¹⁸⁸ Ir(41.5 h)	155.032(29.7), 2214.62(18.7), 632.99(18)
1142.58 12	0.31 3	⁹³ Rb(5.84 s)	432.61(17.4), 986.05(6.8), 213.429(6.7)
1142.58 12	†172	⁹⁴ Rb(2.702 s)	432.61(†9000), 213.429(†6000), 986.05(†4100)
1142.6 5	0.15 5	¹⁴⁹ Dy(4.20 m)	100.8(15.2), 789.4(11.8), 1776.3(11.1)
1142.7 10	0.033 12	⁸⁴ Br(31.80 m)	881.610(42), 1897.761(14.7), 3927.5(6.8)
1142.70 20		¹⁰⁶ In(6.2 m)	632.66(100), 861.16(92), 997.87(48)
1142.7 4	0.92 12	¹¹⁹ Cd(2.20 m)	1025.0(24.8), 2021.3(22.6), 720.7(17.9)
1142.7 4	0.081 18	¹²⁰ Xe(40 m)	25.1(30), 72.6(9), 178.1(6.8)
1142.70 17	0.42 4	¹⁸⁶ Au(10.7 m)	191.56(62), 298.67(25.4), 764.89(10.5)
1142.74 9	1.33 22	¹³³ Te(55.4 m)	912.671(55.28), 647.51(19.4), 863.955(15.6)
1142.8 2	0.27 7	¹⁵⁷ Er(18.65 m)	53.05(24), 391.32(14.2), 121.57(10.1)
1142.85 15	0.0106 21	²²⁸ Ac(6.15 h)	911.205(26.6), 968.971(16.2), 338.322(11.3)
1142.9 3	0.026 7	¹⁵³ Dy(6.4 h)	80.723(11.10), 213.754(10.90), 99.659(10.51)
1143.0 3	0.72 18	¹⁰¹ Zr(2.1 s)	119.3(10.8), 205.6(6.0), 912.2(3.48)
1143.0 4	>2.5×10 ⁻⁵	¹⁰⁷ Cd(6.50 h)	93.124(1.45), 828.93(0.17), 796.462(0.0665)
1143.0 4	0.051 24	¹³³ Ce(4.9 h)	477.22(39), 510.36(20.7), 58.39(19.2)
1143 2	0.04 3	¹³⁵ Pr(24 m)	296.12(24), 82.64(13.7), 213.45(13.0)
• 1143.020 150.029 4		¹⁷² Lu(6.70 d)	1093.657(62.5), 900.724(29.8), 181.528(20.6)
1143.1 5	0.176 25	¹²¹ Xe(40.1 m)	252.7(13), 132.8(10.9), 445.2(7.7)
1143.15 12	0.00198 20	¹⁶¹ Gd(3.66 m)	360.94(0.59), 314.92(22.7), 102.315(13.9)
1143.2 6	0.23 5	¹¹⁷ Cs(8.4 s)	204.8(15.0), 29.7(9.9), 205.6(6.8)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
1143.3 2	1.35 6	¹³² I(2.295 h)	667.718(99), 772.60(75.6), 954.55(17.6)
1143.4 5	1.5 9	¹¹⁵ Te(6.7 m)	770.40(34.2), 723.569(18), 1071.70(12.9)
1143.44 8	0.054 5	¹⁵⁵ Dy(9.9 h)	226.918(68.4), 184.564(3.37), 1089.8(>2.8)
1143.5 3	0.14 6	¹¹⁷ Cd(2.49 h)	273.349(28), 1303.27(18.4), 344.459(17.9)
1143.5 8	>0.11	²⁰⁹ Rn(28.5 m)	408.32(50.3), 745.78(22.8), 337.45(14.5)
1143.6 2	1.6 4	¹¹⁸ Cs(14 s)	337.4(100), 472.8(37.4), 586.6(15.4)
1143.80	0.10	²⁰³ Bi(11.76 h)	820.3(30), 825.2(14.6), 896.9(13)
1143.84 15	1.12 23	¹²³ Cd(1.82 s)	1165.86(25.7), 1027.45(22.6), 2102.81(12.5)
1143.9	4.0	¹⁴⁴ Tb(1 s)	743.0(21), 1719.1(1.7), 1483.5(1.0)
1143.94 15	0.031 9	¹⁸⁹ Pt(10.87 h)	721.41(9.3), 94.33(7.6), 568.84(7.1)
1144	0.15	⁸¹ Ga(1.221 s)	216.47(37.4), 828.26(22.1), 711.18(17.6)
1144 1	0.0029	²³³ Th(22.3 m)	86.477(2.7), 29.374(2.5), 459.222(1.4)
1144.09 9	0.29 3	¹⁴⁹ Tb(4.118 h)	352.24(29.43), 164.98(26.4), 388.57(18.37)
1144.1 3	0.41 10	¹⁵¹ Dy(17.9 m)	386.10(19.4), 49.46(18.0), 546.31(14.3)
1144.1 5	1.1 3	¹⁷⁵ Ta(10.5 h)	207.4(14.0), 348.5(12.0), 266.9(10.8)
1144.13 6	0.033 20	⁶⁶ Ge(2.26 h)	43.89(28.7), 381.85(28), 272.97(10.4)
1144.16 14	0.026 3	¹⁶⁸ Ho(2.99 m)	741.356(36.6), 821.164(34.5), 815.990(18.6)
1144.2 3	0.080 10	⁷¹ Zn(2.45 m)	511.56(32), 910.27(7.8), 389.88(3.8)
1144.2 4	1.55 15	¹²⁸ La(5.0 m)	284.00(87), 479.24(54), 643.65(14.7)
1144.2 4	>0.047	¹⁴² La(91.1 m)	641.285(47), 2397.8(13.3), 2542.7(10.00)
1144.22 29	0.76 25	¹⁴³ Gd(112 s)	271.94(84), 588.00(15.7), 798.89(10.7)
• 1144.24 15	0.0149 19	¹⁵³ Tb(2.34 d)	212.038(31.0), 170.504(6.8), 109.758(6.4)
1144.27 20	0.50 8	²⁰² Bi(1.72 h)	960.67(99), 422.18(83.7), 657.49(60.6)
1144.3 3	†1.05 19	⁹⁵ Pd(13.3 s)	1350.9(†105), 716.6(†70.63), 381.8(†50.8)
1144.4 1	0.0220 12	¹²⁶ Cs(1.64 m)	388.633(41), 491.243(5.0), 925.24(4.56)
1144.449 180.18 3		⁷⁵ Br(96.7 m)	286.572(88), 141.3147(6.6), 427.883(4.4)
1144.5 5	0.11 3	⁴⁹ Ca(8.715 m)	3084.4(92), 4071.9(7.0), 1408.9(0.63)
1144.5 2	3.3 3	⁸⁴ Y(40 m)	793.3(99), 974.6(75), 1040.2(56)
1144.5 5	0.49 12	¹⁶⁶ Lu(2.65 m)	228.12(77.3), 337.50(41), 367.95(31.4)
1144.52 5	8.5 9	⁹⁸ Rh(3.5 m)	652.43(96), 745.36(78), 761.84(<8)
• 1144.65 4	0.00108 5	¹²¹ Te(154 d)	1102.149(2.54), 37.138(0.94), 998.291(0.0796)
• 1144.65 20	0.323 5	¹⁷⁰ Lu(2.00 d)	84.2551(4.256), 1280.25(3.450), 2041.88(1.434)
1144.7 2	0.41 5	¹⁰⁴ Tc(18.3 m)	358.0(89), 530.5(15.6), 535.1(14.7)
1144.70 30	0.014 5	¹⁰⁵ Cd(55.5 m)	961.84(4.69), 346.870(4.20), 1302.459(3.98)
1144.70 18	†3.1 3	¹⁶⁵ Lu(10.74 m)	132.49(†100), 120.60(†100), 174.25(†47.0)
1144.75 15	8.2 6	⁸¹ Ge(7.6 s)	335.98(58.9), 792.94(34), 1495.53(19.9)
1144.9 3	0.80 9	¹⁰⁷ In(32.4 m)	204.97(47), 505.51(11.9), 320.92(10.2)
1144.959 171.67 11		⁷⁸ As(90.7 m)	613.725(54), 694.916(16.7), 1308.59(13.0)
1144.959 170.0177 14		⁷⁸ Br(6.46 m)	613.725(14), 884.861(0.068), 694.916(0.058)
1145.0 10	0.32 13	⁷⁴ Br(25.4 m)	634.78(64), 219.05(18.1), 634.26(14.1)
1145 2	0.059 15	⁷⁶ Br(16.2 h)	559.101(74), 657.041(15.9), 1853.67(14.7)
1145 1	3.9 10	¹⁰⁶ In(6.2 m)	632.66(100), 861.16(92), 997.87(48)
1145 1	>0.35	¹³⁷ Pm(2.4 m)	177.5(40.29), 108.6(35), 233.6(29.57)
1145.0 3	0.22 3	¹⁹⁸ Tl(5.3 h)	411.8044(82), 675.8874(11), 636.4(10.1)
1145.0 5	0.35 3	²²⁸ Fr(39 s)	473.7(10.2), 474.0(7.6), 410.40(6.3)
1145.1 3	0.25 5	¹¹⁹ Ag(2.1 s)	626.4(13), 366.2(12.1), 399.1(10.9)
1145.1 2	8.7 3	¹⁴¹ Sm(22.6 m)	196.88(74), 431.6(40.4), 777.6(20.3)
1145.1 3	0.61 12	¹⁶¹ Er(3.21 h)	826.6(3.0), 211.15(12.2), 592.6(3.7)
1145.20 15	0.27 4	¹⁷⁴ Ta(1.05 h)	206.50(58), 91.00(16.0), 1205.92(4.9)
1145.20 18	†1.8 3	¹⁸⁹ Hg(7.6 m)	320.99(†100), 78.21(†63), 565.42(†48)
1145.2 2	0.103 13	¹⁹⁷ Tl(2.84 h)	425.84(12.9), 152.22(7.2), 1411.34(4.5)
1145.3 5	0.71 17	¹²⁷ Cd(0.43 s)	1235.07(8.3), 376.28(7.5), 523.60(5.15)
1145.32 3	0.0579 14	¹⁵⁹ Ho(33.05 m)	121.012(36.2), 131.973(23.6), 309.594(17.2)
1145.33 30	0.109 16	¹⁶⁵ Yb(9.9 m)	80.11(49), 68.86(9.1), 1090.28(4.4)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
1145.34 6	0.24 3	²⁰⁸ Rn(24.35 m)	426.78(7.07), 251.05(5.02), 350.026(3.34)
1145.4	0.11	⁹⁵ Sr(23.90 s)	685.6(23), 2717.3(4.6), 2933.1(4.1)
1145.43 8	0.00017 8	¹⁷³ Hf(23.6 h)	123.672(83), 296.974(33.9), 139.634(12.7)
1145.44 18	0.132 19	¹³⁸ Xe(14.08 m)	258.411(31.5), 434.562(20.3), 1768.26(16.7)
1145.44 13	0.3 3	¹⁶⁸ Lu(6.7 m)	198.82(28), 979.22(20), 896.12(15)
1145.47 4	0.010 5	¹⁸⁰ Re(2.44 m)	902.795(90), 103.557(22.2), 825.357(9.9)
1145.49 22	1.7 4	¹⁸⁷ Pt(2.35 h)	106.46(9), 201.52(6.4), 110.04(5.7)
1145.5 2	0.059 15	¹⁵¹ Nd(12.44 m)	116.80(43.4), 255.68(16.4), 1180.89(14.8)
1145.5 3	†0.27 5	¹⁶⁰ Ho(5.02 h)	728.18(†100), 879.383(†65.9), 962.317(†59.1)
1145.50 18	0.00089 20	¹⁶¹ Gd(3.66 m)	360.94(0.59), 314.92(22.7), 102.315(13.9)
1145.6	†2.6	¹⁴⁴ Gd(4.5 m)	333.3(†100), 2432.6(†94.8), 629.5(†32.4)
1145.6 3	0.057 13	¹⁵³ Dy(6.4 h)	80.723(11.10), 213.754(10.90), 99.659(10.51)
1145.6 5	0.96 9	¹⁶¹ Yb(4.2 m)	78.20(34), 599.88(25.9), 631.45(13.9)
1145.7 3	0.34 7	²⁰⁰ Po(11.5 m)	671.0(34.0), 617.7(19.7), 434.4(9.3)
1145.70 15	0.31 3	²⁰⁸ At(1.63 h)	686.527(98), 660.040(89), 177.595(48.6)
1145.8 8	0.51 9	⁷⁴ Br(46 m)	634.78(91), 728.37(35.6), 634.26(16.4)
• 1145.80 20	0.408 7	¹⁷⁰ Lu(2.00 d)	84.2551(4.256), 1280.25(3.450), 2041.88(1.434)
1145.8 4	†4.2 8	¹⁹³ Tl(21.6 m)	324.37(†100), 1044.7(†59), 676.10(†48)
1145.9	†0.25 6	¹³⁵ Pm(49 s)	198.5(†100), 207.2(†70), 463.5(†62)
1145.9 1	0.074 15	¹⁵¹ Nd(12.44 m)	116.80(43.4), 255.68(16.4), 1180.89(14.8)
1146.0 3	0.29 6	⁸⁸ Br(16.5 s)	775.28(63), 802.14(13.13), 1440.69(4.72)
1146.0 15	0.058 25	¹⁶⁷ Lu(51.5 m)	29.66(14.4), 239.22(8.6), 213.19(3.6)
1146.1 2	0.85 5	¹⁴³ La(14.2 m)	620.3(2.34), 643.75(1.55), 621.4(1.52)
1146.1 3	0.14 5	¹⁵⁹ Tm(9.13 m)	38.35(5.8), 84.8(5.8), 271.30(5.1)
1146.2 6	0.16 4	⁸⁷ Br(55.60 s)	1419.71(22.0), 1476.04(7.9), 1577.60(6.0)
1146.2 1	0.0025 6	¹²⁷ Cs(6.25 h)	411.95(62.8), 124.70(11.37), 462.31(5.07)
1146.2 5	0.6 2	¹³⁰ Sb(39.5 m)	793.53(100), 839.49(100), 331.05(78)
1146.3 6	0.15 4	⁸⁷ Br(55.60 s)	1419.71(22.0), 1476.04(7.9), 1577.60(6.0)
1146.3 4	0.012 4	¹¹⁹ I(19.1 m)	257.52(87), 635.86(2.69), 320.53(2.17)
1146.3	0.36 5	²³² Np(14.7 m)	327.3(52), 819.187(33.3), 866.760(24.4)
1146.3 5	0.36 5	²³² Np(14.7 m)	327.3(52), 819.187(33.3), 866.760(24.4)
1146.4 2	0.31	⁴³ Ar(5.37 m)	975.0(34), 738.1(15), 1439.5(13)
1146.4 6	0.88 20	⁷² Cu(6.6 s)	652.4(68), 1004.6(12.0), 1657.7(10.1)
1146.4 9	0.48 25	¹⁰⁴ In(1.8 m)	658.0(100), 834.1(99), 878.1(29.4)
1146.4 5	0.35 6	¹²¹ Xe(40.1 m)	252.7(13), 132.8(10.9), 445.2(7.7)
1146.4 3		¹⁵⁷ Pm(10.56 s)	160.61(35), 188.052(13.5), 571.27(5.39)
1146.4 5	4.50 22	¹⁹⁹ Bi(27 m)	560.1(22.0), 424.85(22), 841.7(11)
1146.54 25	0.17 3	²⁰⁴ Bi(11.22 h)	899.15(98), 374.72(82), 984.02(59)
1146.67 3	0.0126 6	²⁵⁰ Bk(3.217 h)	989.12(45), 1031.85(35.6), 1028.65(4.91)
1146.67 3	0.20 3	²⁵⁰ Es(2.22 h)	989.12(13.3), 1031.85(10.6), 828.82(5.5)
1146.7 4	0.143 17	⁹¹ Tc(3.14 m)	2450.90(13.5), 1639.90(9.2), 1605.20(7.77)
1146.7 3	0.0076 17	¹²¹ I(2.12 h)	212.189(84), 532.08(6.07), 598.74(1.47)
1146.72 11	0.65 7	¹⁶⁴ Lu(3.14 m)	123.3(34.0), 740.52(12.2), 262.22(10.8)
• 1146.805 141.96 4		¹⁴⁸ Eu(54.5 d)	550.284(98.5), 629.987(71.9), 611.293(20.5)
• 1146.84 3	0.202 4	¹⁶⁶ Ho(1.20×10 ³ y)	84.410(72.6), 810.276(58.08), 711.683(55.32)
1146.9 4	0.10 3	⁹⁹ Nb(2.6 m)	97.785(7), 253.50(3.64), 2641.3(3.64)
1146.9 2	†2	¹³⁹ I(2.29 s)	527.7(†100), 571.2(†98), 536.6(†67)
1146.90 35	0.107 14	¹⁴⁰ Cs(63.7 s)	602.345(71.1), 908.25(11.6), 1200.25(6.39)
• 1146.92 13	0.073 14	¹⁶⁹ Lu(34.06 h)	960.622(23.4), 191.2137(20.6), 1449.74(9.92)
1146.96 25	0.015 5	⁹⁰ Rb(258 s)	831.69(94), 1375.36(16.7), 3317.00(14.4)
1146.96 25	0.030 4	⁹⁰ Rb(158 s)	831.69(28), 1060.70(6.69), 4365.90(5.6)
1146.96 1	4.95 3	¹³¹ Te(25.0 m)	149.716(69), 452.323(18.18), 492.66(4.826)
• 1146.97 4	0.015 4	⁴⁷ Ca(4.536 d)	1297.09(74), 489.23(6.5), 807.86(6.5)
• 1146.998 9	0.00058 27	¹⁶⁸ Tm(93.1 d)	198.241(52.39), 815.990(48.99), 447.515(23.05)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
1147		¹³⁸ Cs(33.41 m)	1435.795(76.3), 462.796(30.7), 1009.78(29.8)
1147.0	0.028 9	¹⁴¹ Ba(18.27 m)	190.328(46.0), 304.194(25.4), 276.948(23.4)
1147.3	0.008 3	¹⁸⁵ Ta(49.4 m)	177.59(25.7), 173.68(22.6), 65.86(3.9)
• 1147.1 2	0.132 14	¹⁹⁰ Ir(11.78 d)	186.718(52.4), 605.24(39.9), 518.55(34.0)
1147.1 10	0.21 4	²⁰¹ Bi(108 m)	629.1(24.0), 936.2(11.3), 1014.1(10.7)
1147.2 15	0.022	¹²⁹ Sb(4.40 h)	812.8(43), 914.6(20.0), 544.7(17.9)
1147.2 3	0.96 17	¹⁴¹ Cs(24.94 s)	48.53(7.90), 561.63(4.7), 1194.02(3.95)
1147.2 2	0.306 12	¹⁴¹ Nd(2.49 h)	1126.8(0.8), 1292.6(0.46), 145.4405(0.239)
1147.2 5	0.18 5	¹⁷² Ta(36.8 m)	214.02(46), 95.23(17.5), 1109.27(12.4)
1147.228 150.123 10		²⁰⁰ Au(48.4 m)	367.943(19), 1225.479(10.7), 1262.950(3.12)
• 1147.228 150.12 4		²⁰⁰ Tl(26.1 h)	367.943(87), 1205.717(29.9), 579.298(13.8)
1147.3 3	0.156 23	⁶¹ Zn(89.1 s)	475.0(16.85), 1660.5(7.80), 970.0(2.57)
1147.3 4	0.35 8	⁶³ Ga(32.4 s)	637.04(11), 627.10(10.3), 192.94(5.7)
1147.3 5	0.134 24	¹⁶¹ Er(3.21 h)	826.6(3.0), 211.15(12.2), 592.6(3.7)
• 1147.33 10	1.28 3	⁸³ Sr(32.41 h)	762.65(30), 381.53(14.1), 418.37(4.41)
1147.36 15	0.073 19	¹⁶³ Tm(1.810 h)	104.320(18.6), 69.229(11.6), 241.305(10.9)
1147.4 2	†2.7 9	¹¹⁴ Cs(0.57 s)	449.7(†100), 698.2(†11.8), 618.3(†5.0)
1147.4 5	0.047 16	²²⁷ Fr(2.47 m)	90.035(39), 585.804(29.5), 64.267(14.5)
1147.57 15	0.70 9	¹⁹⁷ Pb(8 m)	385.85(50), 761.14(13.3), 375.48(12.8)
1147.6 3	4.2	¹¹¹ Sb(75 s)	154.48(71), 489.1(42), 1032.6(10.0)
1147.6 1	1.36 9	²⁰⁹ At(5.41 h)	545.0(91), 781.9(83.5), 790.2(63.5)
1147.69 6	7.9	¹⁵⁴ Pm(1.73 m)	2057.76(17.1), 1393.9(14.4), 81.99(12.6)
1147.7	0.35	¹³³ Pr(6.5 m)	134.3(14), 74.0(10), 315.6(10)
1147.8 5	0.27 5	¹³² I(2.295 h)	667.718(99), 772.60(75.6), 954.55(17.6)
1147.8 5	0.015 7	¹⁵¹ Nd(12.44 m)	116.80(43.4), 255.68(16.4), 1180.89(14.8)
1147.8 7	0.6	¹⁵¹ Ho(35.2 s)	527.4(63), 775.53(9.2), 209.5(5.69)
1147.8 10	0.31 18	¹⁷⁰ Ho(2.76 m)	258.2(37.0), 931.3(36.1), 181.6(23.8)
1147.84 10	20.5 1	¹⁵⁶ Pm(26.70 s)	173.75(52.0), 117.42(13.8), 267.32(13.3)
1147.87 5	7.91 8	⁷⁸ Rb(17.66 m)	454.97(63), 692.86(12.56), 562.15(11.41)
1147.87 5	7.75 12	⁷⁸ Rb(5.74 m)	454.97(81), 664.44(38.3), 1109.72(13.12)
1147.9 5	1.7 3	⁹⁰ Tc(49.2 s)	1054.3(100), 948.1(100), 944.7(36.6)
1147.9 4	0.009 5	¹⁰⁵ Cd(55.5 m)	961.84(4.69), 346.870(4.20), 1302.459(3.98)
1147.9 3	0.089 24	¹⁵³ Dy(6.4 h)	80.723(11.10), 213.754(10.90), 99.659(10.51)
1147.9 1	0.394 25	²³⁰ Ac(122 s)	454.95(8), 508.20(5.15), 1243.9(3.50)
1147.97 8	2.61 10	⁹⁷ Zr(16.91 h)	743.36(93), 507.64(5.03), 355.40(2.09)
• 1148.0 6	0.05 3	¹⁶⁹ Lu(34.06 h)	960.622(23.4), 191.2137(20.6), 1449.74(9.92)
1148 1	†1.6 6	¹⁹¹ Tl(5.22 m)	452.6(†100), 470.1(†98), 391.6(†96)
1148.01 26	0.078 3	⁵¹ Mn(46.2 m)	749.07(0.26), 1164.40(0.076), 2001.1(0.0371)
1148.03 4	9.15 12	¹⁴⁵ Ce(3.01 m)	724.33(59), 62.54(13.33), 284.53(8.14)
1148.05 14	0.078 6	⁶⁶ Ga(9.49 h)	1039.30(37), 2752.01(23.38), 833.50(5.89)
1148.1 6	0.023 9	⁷⁹ Rb(22.9 m)	688.1(23), 182.77(19.2), 143.41(13.9)
1148.12 15	0.0061 13	²²⁸ Ac(6.15 h)	911.205(26.6), 968.971(16.2), 338.322(11.3)
1148.18 8	1.53 9	⁹³ Rb(5.84 s)	432.61(17.4), 986.05(6.8), 213.429(6.7)
1148.18 8	†5×10 ⁰²	⁹⁴ Rb(2.702 s)	432.61(†9000), 213.429(†6000), 986.05(†4100)
1148.29 9	5.72 10	²⁰⁷ Po(5.80 h)	992.33(59.3), 742.64(28.2), 911.79(16.95)
1148.3	†75	¹³⁰ Ce(25 m)	1072.6(†100), 997.7(†100), 920.5(†100)
1148.3 3	>0.21	¹⁵⁷ Er(18.65 m)	53.05(24), 391.32(14.2), 121.57(10.1)
1148.3 2	0.046 8	¹⁷⁶ Ta(8.09 h)	1159.28(25), 88.34(12), 1224.93(6)
• 1148.4 3	0.012 3	⁷² As(26.0 h)	834.01(80), 629.95(7.92), 1463.95(1.107)
1148.4 4	0.11 3	¹¹³ Sb(6.67 m)	497.96(80), 332.41(14.8), 88.25(2.7)
1148.4 6	0.10 5	¹²² Cs(21.0 s)	331.1(48), 512.0(3.8), 817.9(3.09)
1148.49 13	0.00054 18	¹⁹ O(26.91 s)	197.142(95.9), 1356.843(50.4), 109.894(2.71)
1148.5 10	0.039 4	¹⁰⁷ Rh(21.7 m)	302.77(66), 392.47(8.8), 312.21(4.8)
1148.5 1	4.5 18	¹⁴¹ Gd(24.5 s)	351.1(89), 223.9(64), 574.9(51)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
1148.5 2	1.16 6	¹⁴³ La(14.2 m)	620.3(2.34), 643.75(1.55), 621.4(1.52)
• 1148.5 3	0.014 6	¹⁷² Lu(6.70 d)	1093.657(62.5), 900.724(29.8), 181.528(20.6)
1148.51 6	0.110 7	¹³¹ Te(25.0 m)	149.716(69), 452.323(18.18), 1146.96(4.95)
1148.56 10	0.194 20	¹⁶⁵ Yb(9.9 m)	80.11(49), 68.86(9.1), 1090.28(4.4)
1148.6 3	0.049 10	⁹⁷ Nb(72.1 m)	658.08(98), 1024.49(1.09), 1268.68(0.148)
1148.6 4	0.56 8	¹⁴³ Gd(39 s)	258.81(75), 204.77(19.4), 463.7(9.9)
1148.6 5	1.8 3	¹⁶⁴ Tb(3.0 m)	168.838(25.4), 754.80(23.3), 215.07(21)
1148.62 6	0.0183 15	²⁴⁶ Am(25.0 m)	1078.86(27.7), 798.80(25), 1062.04(17.1)
1148.7 1	0.498 18	¹⁴² Ba(10.6 m)	255.300(20.5), 1204.3(14.23), 895.2(13.9)
1148.7 1	0.142 14	¹⁴⁶ Ba(2.22 s)	140.7(20.2), 251.2(19.6), 121.2(14.2)
1148.75 8	0.76 5	²⁰¹ Pb(9.33 h)	331.19(79), 361.27(9.9), 945.96(7.4)
1148.8 3	0.78 9	²⁰⁹ At(5.41 h)	545.0(91), 781.9(83.5), 790.2(63.5)
1148.83 3	0.042 14	¹⁷⁹ Re(19.5 m)	430.221(28), 289.968(26.9), 1680.244(13.0)
1148.89 7	0.062 7	¹³¹ Te(25.0 m)	149.716(69), 452.323(18.18), 1146.96(4.95)
• 1148.89 7	<0.6	¹³¹ Te(30 h)	773.67(49.9), 852.21(27.0), 793.75(18.10)
• 1148.89 7	2.0 4	¹³¹ Te(30 h)	773.67(49.9), 852.21(27.0), 793.75(18.10)
1148.9 4	4.3 4	¹⁰⁹ In(4.2 h)	203.5(74), 623.7(5.5), 426.25(4.12)
1148.9 1	0.056 3	¹²¹ I(2.12 h)	212.189(84), 532.08(6.07), 598.74(1.47)
1148.9 4	0.226 14	¹⁴⁶ Pr(24.15 m)	453.88(48.0), 1523.7(15.6), 735.72(7.5)
1149.07 23	1.1 4	¹⁸⁷ Pt(2.35 h)	106.46(9), 201.52(6.4), 110.04(5.7)
• 1149.10 15	0.38 3	¹⁴⁷ Gd(38.06 h)	229.32(63), 396.00(34.3), 929.01(20.2)
1149.1 7	0.06 3	¹⁵⁶ Ho(56 m)	266.35(54.7), 137.83(51), 366.25(10.73)
1149.18 15	†6 1	¹⁶⁰ Eu(38 s)	173.19(†100), 513.6(†60), 412.56(†56)
1149.2 3	0.140 17	¹³⁹ Xe(39.68 s)	218.59(56), 296.53(21.7), 174.97(11.3)
1149.4 20	0.30 12	⁶⁸ Cu(3.75 m)	1339.96(12.0), 1077.35(12), 1041.3(9.6)
1149.4 8	†5.2 23	¹⁵² Pr(3.24 s)	164.2(†100), 284.9(†81.0), 72.40(†38.9)
1149.4 7	†1.1 5	¹⁵² Tb(17.5 h)	344.281(†1500), 586.294(†223), 271.135(†203)
1149.50 16	0.0189 25	⁶³ Zn(38.47 m)	669.62(8), 962.06(6.5), 1412.08(0.75)
1149.56 21		¹⁰⁶ In(6.2 m)	632.66(100), 861.16(92), 997.87(48)
1149.58 2	0.669 25	¹³⁵ Ce(17.7 h)	265.56(41.8), 300.07(23.5), 606.76(18.8)
• 1149.6 5	0.043 7	⁶⁹ Ge(39.05 h)	1107.01(36), 574.17(13.3), 872.14(11.9)
1149.66 13	0.98 16	¹⁵⁴ Tb(9.4 h)	123.071(30), 247.925(22.1), 540.18(20)
1149.7 7	0.07 3	⁹¹ Rb(58.4 s)	93.628(33.7), 2564.19(12.5), 3599.67(10.4)
1149.76 9	0.0157 6	¹⁸⁸ Re(16.98 h)	155.032(14.9), 632.99(1.25), 477.99(1.0)
• 1149.76 9	0.53 10	¹⁸⁸ Ir(41.5 h)	155.032(29.7), 2214.62(18.7), 632.99(18)
1149.8 2	†6	¹³⁹ I(2.29 s)	527.7(†100), 571.2(†98), 536.6(†67)
1149.8 2	0.65 3	¹⁷⁷ Yb(1.911 h)	150.392(20.3), 1080.21(5.6), 1241.2(3.47)
1149.83 7	7.6 6	¹⁵⁸ Tm(3.98 m)	192.13(62), 335.10(16.8), 628.03(6.7)
1149.9 2	2.28 20	¹²¹ Cd(13.5 s)	324.976(49.5), 1040.26(16.8), 349.937(12.9)
1149.94 9	0.0119 6	¹⁶¹ Gd(3.66 m)	360.94(0.59), 314.92(22.7), 102.315(13.9)
1150		¹¹¹ Sb(75 s)	154.48(71), 489.1(42), 1032.6(10.0)
1150.0 1	†1.71×10 ³	¹⁵⁷ Ho(12.6 m)	279.97(†47600), 341.16(†37000), 193.41(†15200)
1150.08 8	0.0231 23	¹⁴⁹ Nd(1.728 h)	211.309(25.9), 114.314(19.2), 270.166(10.7)
1150.1 3	0.70 12	⁹⁸ Pd(17.7 m)	112.0(58), 662.2(19.7), 106.75(13.9)
1150.1 4	0.22 11	²⁰³ Po(36.7 m)	908.64(55), 1090.95(19.2), 893.49(18.7)
1150.20 20	0.00306 20	¹⁰⁶ Rh(29.80 s)	511.842(20), 621.94(9.93), 1050.39(1.56)
1150.258 3	0.194 4	¹⁴⁵ Pr(5.984 h)	748.278(0.5250), 675.795(0.514), 72.500(0.261)
1150.3 10		⁸⁶ Y(14.74 h)	1076.64(83), 627.72(32.6), 1153.01(30.5)
1150.3 4	1.06 17	⁹⁷ Pd(3.10 m)	265.26(56), 475.2(26.7), 792.70(13.8)
1150.35 10	0.20	¹³⁷ I(24.5 s)	1218.00(12.8), 601.05(4.80), 1302.64(4.42)
1150.38 13	0.46 4	⁹³ Rb(5.84 s)	432.61(17.4), 986.05(6.8), 213.429(6.7)
1150.4 2	0.54 12	¹⁰⁸ Tc(5.17 s)	242.25(82), 465.6(14.3), 707.81(11.4)
1150.4 3	†2.3 6	¹⁷¹ Hf(12.1 h)	122.0(†100), 662.2(†83), 347.18(†47)
1150.50 8	0.0101 7	¹⁵⁹ Ho(33.05 m)	121.012(36.2), 131.973(23.6), 309.594(17.2)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
1150.6 5	0.234 22	¹¹⁵ Ag(20.0 m)	229.08(18), 212.80(4.4), 472.70(4.0)
1150.6 3	0.22 5	¹⁴¹ Xe(1.73 s)	909.23(24.0), 118.705(16.1), 105.937(9.8)
1150.64 13	0.070 21	¹⁸⁷ Au(8.4 m)	1331.81(7.0), 1408.23(3.06), 914.73(3.02)
• 1150.65 17	2.08 6	¹⁴⁶ Eu(4.59 d)	747.2(98), 633.03(43), 634.07(37)
1150.7 15	0.13 7	⁶⁵ Ge(30.9 s)	649.7(33), 62.0(27), 809.1(21.5)
1150.7 3	0.23 3	¹⁰⁹ Ru(34.5 s)	206.29(22.0), 225.98(19.6), 1929.05(13.7)
1150.7 2	4.1 6	¹¹⁸ I(13.7 m)	605.71(86.0), 545.12(10.9), 600.71(10.2)
1150.7 2	0.86 11	¹¹⁸ I(8.5 m)	605.71(99), 600.71(92), 614.42(65)
1150.7 7	>0.19	¹²⁷ Ba(12.7 m)	180.8(12), 114.8(9.3), 66.06(2.12)
• 1150.7 2	2.08 6	¹⁴⁶ Eu(4.59 d)	747.2(98), 633.03(43), 634.07(37)
• 1150.7 5	0.034 9	¹⁹⁰ Ir(11.78 d)	186.718(52.4), 605.24(39.9), 518.55(34.0)
1150.71 9	0.40 6	²⁰² Bi(1.72 h)	960.67(99), 422.18(83.7), 657.49(60.6)
1150.76 4	0.597 20	¹⁹⁴ Ir(19.15 h)	328.455(13.1), 293.545(2.55), 645.157(1.17)
• 1150.76 4	1.37 8	¹⁹⁴ Au(38.02 h)	328.455(60), 293.545(10.2), 1468.91(6.3)
1150.79 10	0.037 3	¹⁵¹ Tb(17.609 h)	287.357(28.3), 251.863(26.3), 108.088(24.3)
1150.8 5	0.34 12	¹⁵⁷ Tm(3.63 m)	455.00(9.3), 385.5(8.8), 348.40(8.4)
1150.81 6	0.42 21	¹²³ Cd(1.82 s)	1165.86(25.7), 1027.45(22.6), 2102.81(12.5)
1150.9 2	0.049 25	¹²⁹ La(11.6 m)	278.6(25), 110.5(16.9), 457.0(8.0)
• 1150.90 9	0.86 10	¹³¹ Te(30 h)	773.67(49.9), 852.21(27.0), 793.75(18.10)
1150.9 3	0.21 3	¹⁵³ Dy(6.4 h)	80.723(11.10), 213.754(10.90), 99.659(10.51)
1150.9 3	0.0153 6	¹⁸⁸ Re(16.98 h)	155.032(14.9), 632.99(1.25), 477.99(1.0)
1150.9 2	†2.2 2	²⁰³ At(7.4 m)	639.4(†100), 641.5(†55.8), 738.1(†38.4)
1151.0 10	†3	⁹⁹ Rb(59 ms)	90.8(†100), 125.2(†40), 1071.6(†26)
1151.0 3		¹¹⁸ Ag(3.76 s)	487.77(60), 677.13(11.9), 2788.7(11.8)
1151.0 3	0.35 7	¹⁴² Eu(1.22 m)	768.1(100), 1023.3(92.0), 556.6(86.6)
• 1151 1	0.05 3	¹⁴⁷ Gd(38.06 h)	229.32(63), 396.00(34.3), 929.01(20.2)
1151.0 2	0.0147 20	²⁵¹ Fm(5.30 h)	880.8(2.19), 453.1(1.45), 405.6(0.99)
1151.1 6	0.029 19	¹²⁵ Sn(9.52 m)	332.10(97.2), 1404.0(0.70), 589.6(0.20)
1151.1 4	0.45 12	¹⁶⁶ Lu(2.65 m)	228.12(77.3), 337.50(41), 367.95(31.4)
1151.15 8	13.2 10	⁸⁰ Zn(0.545 s)	712.53(45.1), 715.40(33.8), 964.93(15.6)
1151.2 4	0.123 25	¹³⁹ Nd(5.50 h)	113.94(40), 737.96(35), 982.2(26.4)
1151.2 5	0.87 13	¹⁵³ Ho(2.0 m)	295.8(67), 637.0(5.36), 688.5(3.7)
• 1151.23 5	0.114 4	¹²⁵ Sn(9.64 d)	1067.10(10), 1089.15(4.59), 822.48(4.28)
1151.3 5	†8.3 9	¹⁰³ Mo(67.5 s)	83.4(†100), 423.91(†69), 45.8(†57)
• 1151.3 4	0.019 10	¹⁴⁸ Eu(54.5 d)	550.284(98.5), 629.987(71.9), 611.293(20.5)
1151.4 5	0.58	⁶⁷ As(42.5 s)	122.7(19.2), 120.8(9.3), 243.6(7.8)
1151.4 9	0.014 7	⁷⁹ Rb(22.9 m)	688.1(23), 182.77(19.2), 143.41(13.9)
1151.4	0.35 4	¹³⁰ La(8.7 m)	357.4(81.0), 550.7(25.9), 908.0(17.0)
1151.4 3	0.032 9	²³⁴ Pa(6.70 h)	131.30(18), 946.00(13.4), 883.24(9.6)
1151.4 3		²³⁴ Pa(6.70 h)	131.30(18), 946.00(13.4), 883.24(9.6)
1151.41 6	1.11 9	¹⁷⁴ Ta(1.05 h)	206.50(58), 91.00(16.0), 1205.92(4.9)
1151.5 10	0.082 17	²⁰¹ Bi(108 m)	629.1(24.0), 936.2(11.3), 1014.1(10.7)
1151.51	>0.0029	¹³⁵ I(6.57 h)	1260.409(28.90), 1131.511(22.74), 1678.027(9.62)
1151.57 7	0.065 3	¹²¹ I(2.12 h)	212.189(84), 532.08(6.07), 598.74(1.47)
1151.6 1	0.034 8	¹²¹ I(2.12 h)	212.189(84), 532.08(6.07), 598.74(1.47)
1151.7 2	0.56 5	⁹⁴ Rb(2.702 s)	1309.1(87), 836.9(87.10), 1577.5(31.8)
1151.7 6	0.23	¹¹⁶ Ag(2.68 m)	513.39(76), 2478.5(12), 699.58(11)
• 1151.70 7	0.21 3	¹⁶⁹ Lu(34.06 h)	960.622(23.4), 191.2137(20.6), 1449.74(9.92)
1151.71 9	0.044 8	¹¹⁰ In(69.1 m)	657.7622(98), 2129.53(2.13), 2211.49(1.76)
1151.8 3	0.052 10	¹⁵¹ Nd(12.44 m)	116.80(43.4), 255.68(16.4), 1180.89(14.8)
1151.8 8	†3.1 9	¹⁶⁰ Tm(9.4 m)	125.8(†100), 728.5(†37), 264.1(†27)
1151.8 5	0.14	²⁰³ Bi(11.76 h)	820.3(30), 825.2(14.6), 896.9(13)
1151.84 5	0.195 4	⁷⁷ Ge(11.30 h)	264.44(54), 211.03(30.8), 215.50(28.6)
1151.9 4	4.4 4	²⁹ S(187 ms)	1383.51(19), 1953.83(17.02), 2422.5(15.5)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
1151.9 3	0.5 1	¹⁵⁰ Er(18.5 s)	475.8(100), 130.0(2.6), 1014.0(0.9)
1152 1	0.91 21	¹⁶⁴ Tb(3.0 m)	168.838(25.4), 754.80(23.3), 215.07(21)
1152.0 4	†4.9 9	¹⁹³ Tl(21.6 m)	324.37(†100), 1044.7(†59), 676.10(†48)
1152.04 9	0.467 15	¹⁹⁴ Pb(12.0 m)	581.82(18.8), 1519.45(16.4), 203.82(16.2)
1152.05 11	0.44 3	¹³³ Ce(4.9 h)	477.22(39), 510.36(20.7), 58.39(19.2)
1152.1 5	†18 9	¹⁷ C(193 ms)	1373.8(†100), 1849.5(†92), 1906.7(†29)
1152.2 4	0.064 16	⁸⁹ Kr(3.15 m)	220.948(20.1), 586.03(16.6), 904.27(7.2)
1152.2 4	3.0 3	¹³² Sb(2.79 m)	973.9(99), 696.8(86), 989.6(14.9)
1152.3 2	0.37 6	¹⁴⁹ Dy(4.20 m)	100.8(15.2), 789.4(11.8), 1776.3(11.1)
1152.3 4	†0.86 24	¹⁸⁹ Hg(7.6 m)	320.99(†100), 78.21(†63), 565.42(†48)
• 1152.330 260.0085 5		¹⁴⁷ Eu(24.1 d)	197.299(27), 121.220(22.9), 677.516(9.8)
1152.350 161.55 4		¹⁶⁶ Tm(7.70 h)	778.817(18.9), 2052.36(17.2), 184.410(16.1)
1152.4 2	0.85 11	¹¹⁹ Cd(2.69 m)	292.9(36.8), 343.0(16.9), 1609.7(10.9)
1152.4 1	100 8	¹⁴⁷ Tb(1.7 h)	694.4(43), 139.9(27.46), 119.7(6.1)
1152.4	0.20	¹⁵⁹ Er(36 m)	624.5(33), 649.1(23.4), 205.92(9.7)
1152.42 9	2.2 3	¹⁵⁴ Tb(9.4 h)	123.071(30), 247.925(22.1), 540.18(20)
1152.5 2	0.023 3	¹¹⁹ I(19.1 m)	257.52(87), 635.86(2.69), 320.53(2.17)
• 1152.5 2	0.0029 13	¹⁴⁸ Pm(5.370 d)	1465.12(22), 550.284(22.00), 914.85(11.46)
1152.5 6	1.96 18	¹⁷⁰ Ho(2.76 m)	258.2(37.0), 931.3(36.1), 181.6(23.8)
1152.593 190.88 9		²⁹ Al(6.56 m)	1273.367(90.6), 2425.907(5.7), 2028.12(3.7)
1152.593 190.0150 15		²⁹ P(4.140 s)	1273.367(1.549), 2425.907(0.097), 2028.12(0.063)
1152.8 6	0.20	²⁰³ Bi(11.76 h)	820.3(30), 825.2(14.6), 896.9(13)
1152.9 1	0.41 4	¹⁰⁹ Ru(34.5 s)	206.29(22.0), 225.98(19.6), 1929.05(13.7)
1152.98 11	2.7	¹¹¹ Sn(35.3 m)	1914.70(1.99), 761.97(1.48), 1610.47(1.31)
1153 1	>0.35	¹³⁷ Pm(2.4 m)	177.5(40.29), 108.6(35), 233.6(29.57)
1153.0 5	0.43 9	¹⁴⁴ La(40.8 s)	397.440(94.3), 541.20(39.2), 844.8(22.3)
1153 1	†8.3 12	²⁴⁴ Bk(4.35 h)	891.5(†100), 217.6(†88), 921.5(†19)
1153.01 4	30.5 9	⁸⁶ Y(14.74 h)	1076.64(83), 627.72(32.6), 777.35(22.4)
1153.01 4	0.69 7	⁸⁶ Y(48 m)	627.21(0.69), 1076.64(0.69), 98.68
• 1153.1 5	0.0109 25	¹⁵⁴ Eu(8.593 y)	123.071(40.79), 1274.436(35.19), 723.304(20.22)
1153.2 3	0.143 20	¹⁵³ Dy(6.4 h)	80.723(11.10), 213.754(10.90), 99.659(10.51)
1153.2 7	0.86 9	¹⁹⁹ Bi(27 m)	560.1(22.0), 424.85(22), 841.7(11)
• 1153.25 25	0.0071 12	¹⁵³ Tb(2.34 d)	212.038(31.0), 170.504(6.8), 109.758(6.4)
1153.3 3	0.39 6	¹⁴⁹ Dy(4.20 m)	100.8(15.2), 789.4(11.8), 1776.3(11.1)
1153.3 10	0.040 22	¹⁶⁷ Lu(51.5 m)	29.66(14.4), 239.22(8.6), 213.19(3.6)
1153.4 4	0.11 5	¹⁸⁵ Au(4.25 m)	310.6(13), 243.1(6.6), 77.7(6)
1153.43 12	0.00154 20	¹⁶¹ Gd(3.66 m)	360.94(0.59), 314.92(22.7), 102.315(13.9)
1153.45 3	1.05 3	¹⁶³ Tm(1.810 h)	104.320(18.6), 69.229(11.6), 241.305(10.9)
1153.5 3	0.045 7	²³⁴ Pa(6.70 h)	131.30(18), 946.00(13.4), 883.24(9.6)
1153.52 4	0.144 11	²²⁸ Ac(6.15 h)	911.205(26.6), 968.971(16.2), 338.322(11.3)
1153.6 5	0.032 16	¹³⁸ Xe(14.08 m)	258.411(31.5), 434.562(20.3), 1768.26(16.7)
1153.6 1	0.126 13	¹⁴³ Cs(1.78 s)	195.554(13), 232.421(8.32), 306.424(6.80)
1153.64 7	0.88 6	¹⁴¹ Cs(24.94 s)	48.53(7.90), 561.63(4.7), 1194.02(3.95)
• 1153.67 10	6.79 6	¹⁵⁶ Eu(15.19 d)	811.79(9.70), 88.9667(8.4), 1230.68(7.98)
• 1153.67 10	0.236 22	¹⁵⁶ Tb(5.35 d)	534.318(66.6), 199.2132(40.9), 1222.36(31.00)
1153.67 18	1.10 8	¹⁷² Ta(36.8 m)	214.02(46), 95.23(17.5), 1109.27(12.4)
1153.675 290.0637 14		¹⁵⁹ Ho(33.05 m)	121.012(36.2), 131.973(23.6), 309.594(17.2)
1153.7 3	†10	¹⁵⁴ Nd(25.9 s)	151.703(†800), 799.55(†600), 180.693(†510)
1153.7 10	†1.9 7	¹⁹¹ Tl(5.22 m)	452.6(†100), 470.1(†98), 391.6(†96)
1153.79 10	1.07 6	⁷⁷ Rb(3.75 m)	66.52(57), 178.99(22.2), 393.37(9.7)
1153.8 5	0.47	¹⁰¹ Cd(1.2 m)	98.0(47), 1722.5(11), 1259.3(8)
1153.8 3	0.098 10	¹²³ Xe(2.08 h)	148.9(49), 178.1(14.9), 330.2(8.6)
1153.8 1	0.24 6	¹⁴² Gd(70.2 s)	750.2(11.2), 178.90(11.20), 284.4(6.16)
1153.8 2	†2.1 2	²⁰³ At(7.4 m)	639.4(†100), 641.5(†55.8), 738.1(†38.4)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
1153.9 3	0.0054 11	⁷³ Se(7.15 h)	360.80(108), 67.03(78), 865.09(0.584)
1153.9 3	0.154 15	¹⁴³ Ba(14.33 s)	211.475(25), 798.79(15.6), 980.45(11.55)
1153.9	0.31	¹⁴⁸ Pr(2.27 m)	301.702(61), 1357.78(5.5), 1023.18(4.8)
1153.9	0.07	¹⁸⁵ Ir(14.4 h)	254.4(13.3), 1828.8(10), 60.0(5.7)
1154.0 15		⁸⁶ Y(14.74 h)	1076.64(83), 627.72(32.6), 1153.01(30.5)
1154.0 3	0.17 6	¹⁵⁷ Er(18.65 m)	53.05(24), 391.32(14.2), 121.57(10.1)
1154.10 20	1.6 6	¹¹⁴ Sb(3.49 m)	1299.90(99), 887.60(17.4), 327.18(7.0)
1154.17 17	0.51 16	¹⁷⁵ Tm(15.2 m)	514.868(65), 941.23(15), 363.942(12.7)
• 1154.19 13	4.73 4	¹⁵⁶ Eu(15.19 d)	811.79(9.70), 88.9667(8.4), 1230.68(7.98)
• 1154.19 13	10.37 5	¹⁵⁶ Tb(5.35 d)	534.318(66.6), 199.2132(40.9), 1222.36(31.00)
1154.2 15	0.050 14	¹⁴⁰ Cs(63.7 s)	602.345(71.1), 908.25(11.6), 1200.25(6.39)
1154.2 4	0.32 8	¹⁹⁰ Au(42.8 m)	295.78(71.0), 301.82(23.4), 597.67(9.4)
1154.23 20	0.032 5	¹³¹ La(59 m)	108.081(25.0), 417.783(18.0), 365.162(16.9)
1154.31 17	†1.07 7	¹⁸⁴ Ir(3.09 h)	263.97(†100), 119.80(†45), 390.38(†38)
1154.4		⁸³ Y(7.08 m)	35.50(0.44), 882.1(6.30), 489.90(5.53)
1154.4 3	0.65 17	¹⁰⁵ Mo(35.6 s)	85.4(25.0), 76.50(19.3), 147.8(14.8)
1154.4 12	0.20 6	¹¹² Sb(51.4 s)	1257.05(96), 990.70(14.3), 670.0(3.7)
1154.4 3	†8.5 15	¹⁵⁹ Yb(1.58 m)	166.16(†500), 177.12(†159), 390.20(†113)
1154.5 3	0.30 4	¹⁴⁰ Xe(13.60 s)	805.52(20), 1413.66(12.2), 1315.05(8.2)
1154.54 8	0.46 3	¹⁶⁵ Yb(9.9 m)	80.11(49), 68.86(9.1), 1090.28(4.4)
1154.6 1	0.0050 6	¹²⁷ Cs(6.25 h)	411.95(62.8), 124.70(11.37), 462.31(5.07)
1154.6 2	1.69 12	²³⁰ Fr(19.1 s)	711.0(13.6), 129.1(11.0), 728.4(7.3)
1154.64 16	0.68 5	¹⁵⁰ Pm(2.68 h)	333.971(68), 1324.51(17.5), 1165.739(15.8)
1154.65 11	0.160 22	²⁰⁷ At(1.80 h)	814.41(44.5), 588.33(19.2), 300.654(12.8)
1154.66 5	†366 30	¹⁶⁴ Tm(2.0 m)	91.40(†1500), 768.91(†279), 208.08(†254)
1154.68	0.66 4	¹³³ Ce(4.9 h)	477.22(39), 510.36(20.7), 58.39(19.2)
• 1154.7 10	0.03 3	¹⁴⁷ Gd(38.06 h)	229.32(63), 396.00(34.3), 929.01(20.2)
1154.7 5	†2.5 6	¹⁷¹ Hf(12.1 h)	122.0(†100), 662.2(†83), 347.18(†47)
1154.77 3	0.0072 4	²⁵⁰ Bk(3.217 h)	989.12(45), 1031.85(35.6), 1028.65(4.91)
1154.77 3	0.098 20	²⁵⁰ Es(2.22 h)	989.12(13.3), 1031.85(10.6), 828.82(5.5)
1154.8 5	1.80 18	⁸⁹ Mo(2.04 m)	658.6(5.7), 1272.6(3.7), 844.0(3.7)
1154.8 10	1.19 21	¹⁶⁴ Tb(3.0 m)	168.838(25.4), 754.80(23.3), 215.07(21)
1154.85 9	0.60 4	⁸⁰ Ga(1.697 s)	659.14(78.0), 1083.47(48.4), 1109.36(18.6)
1154.86 5	1.94 11	⁷⁷ Zn(2.08 s)	189.49(28.1), 473.94(19.7), 1832.0(12.4)
1154.9 5	0.69 10	⁸⁴ Y(40 m)	793.3(99), 974.6(75), 1040.2(56)
• 1154.980 150.164 10		¹⁷² Tm(63.6 h)	78.7435(6.5), 1093.657(6.0), 1387.093(5.6)
1155	>0.0049	⁹⁰ Nb(14.60 h)	1129.224(92.7), 2318.968(82.03), 141.178(66.8)
1155.0 5	0.13 7	¹⁰⁹ Ru(34.5 s)	206.29(22.0), 225.98(19.6), 1929.05(13.7)
1155.0 10		¹²⁹ Sb(4.40 h)	812.8(43), 914.6(20.0), 544.7(17.9)
1155.0 6		¹⁴⁴ Cs(1.01 s)	199.326(†100.0), 639.00(†21.2), 758.96(†20.6)
1155.0 2	0.55 5	¹⁹⁰ Tl(2.6 m)	416.4(79), 625.4(11.1), 683.5(8.7)
1155.04 24	0.36 7	¹⁵⁷ Sm(482 s)	197.870(56.00), 196.461(16.8), 394.351(11.93)
1155.1 5	0.14 6	¹⁰⁰ Rh(20.8 h)	539.59(78.4), 2376.1(35.3), 1553.4(21)
1155.19 2	1.64 4	²¹⁴ Bi(19.9 m)	609.312(44.8), 1764.494(15.36), 1120.287(14.80)
1155.2 8	0.04 2	¹²³ In(5.98 s)	1130.5(63), 1019.7(32), 618.8(2.6)
• 1155.2 10	0.040 22	¹²⁷ Sb(3.85 d)	685.7(37), 473.0(25.7), 783.7(15.0)
• 1155.2 2	0.189 10	¹⁴⁶ Eu(4.59 d)	747.2(98), 633.03(43), 634.07(37)
• 1155.25 30	0.0336 22	¹⁷⁰ Lu(2.00 d)	84.2551(4.256), 1280.25(3.450), 2041.88(1.434)
1155.27 10	3.05 7	¹⁰³ Ag(65.7 m)	118.72(31.2), 148.193(28.3), 266.86(13.3)
1155.3 3	†1.5 4	¹⁸⁹ Hg(7.6 m)	320.99(†100), 78.21(†63), 565.42(†48)
1155.37 17	0.0194 11	⁷⁷ Ge(11.30 h)	264.44(54), 211.03(30.8), 215.50(28.6)
1155.47 3	2.09 5	¹⁵⁵ Dy(9.9 h)	226.918(68.4), 184.564(3.37), 1089.8(>2.8)
1155.5 1	9.5 17	¹²⁹ Sn(6.9 m)	1161.31(56.0), 1128.44(50), 760.8(16.8)
1155.52 18	0.65 8	¹⁷⁶ Ta(8.09 h)	1159.28(25), 88.34(12), 1224.93(6)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
1155.6 4	0.025	¹⁰³ Ag(65.7 m)	118.72(31.2), 148.193(28.3), 266.86(13.3)
1155.6 5	0.27 3	¹⁹⁰ Re(3.2 h)	186.718(27.8), 605.24(14.9), 557.972(14.3)
1155.6 5	0.015 4	²¹⁴ Bi(19.9 m)	609.312(44.8), 1764.494(15.36), 1120.287(14.80)
1155.7 6	0.0105 19	⁷² Ga(14.10 h)	834.01(96), 2201.69(25.9), 629.95(24.8)
1155.7 4	2.7 9	¹¹⁵ Te(6.7 m)	770.40(34.2), 723.569(18), 1071.70(12.9)
1155.7 2	0.18 3	¹⁴⁶ Ba(2.22 s)	140.7(20.2), 251.2(19.6), 121.2(14.2)
1155.7 2	†0.50 9	¹⁶⁰ Ho(5.02 h)	728.18(†100), 879.383(†65.9), 962.317(†59.1)
1155.7 2	0.23 4	¹⁶⁰ Ho(25.6 m)	728.18(46.9), 879.383(26.6), 962.317(25.6)
1155.7 3	0.47 8	¹⁸⁴ Au(53.0 s)	162.97(50), 272.98(40), 362.47(17.5)
1155.72 14	1.09 3	¹⁵⁶ Ho(56 m)	266.35(54.7), 137.83(51), 366.25(10.73)
1155.8 2	†3.4 5	¹¹⁰ Tc(0.92 s)	240.67(†100), 372.1(†17.0), 613.0(†16.0)
1155.8 2	0.0041 21	¹³¹ Te(25.0 m)	149.716(69), 452.323(18.18), 1146.96(4.95)
1155.8 3	†1.9 8	¹³¹ Pr(1.53 m)	266.13(†100), 72.82(†64), 387.56(†38)
1155.8 5	0.49 5	²²⁶ Fr(48 s)	253.73(22.3), 186.05(16.3), 253.9(2.5)
1155.826 280	0.0194 10	¹³⁴ La(6.45 m)	604.699(5.05), 1554.934(0.414), 563.227(0.359)
1155.9 1	0.40 5	²³⁶ Pa(9.1 m)	642.35(37.0), 687.59(9.9), 1762.7(6.0)
1156.0 2	1.02 18	¹⁰¹ Zr(2.1 s)	119.3(10.8), 205.6(6.0), 912.2(3.48)
• 1156	0.131 19	¹⁵⁶ Eu(15.19 d)	811.79(9.70), 88.9667(8.4), 1230.68(7.98)
1156.0 5	0.00060 15	¹⁷¹ Er(7.516 h)	308.31(64.4), 295.901(28.9), 111.621(20.5)
1156.0 3	0.42 7	¹⁸³ Au(42.0 s)	161.18(9.4), 214.13(5.9), 313.08(5.0)
1156 1	0.007 3	²¹⁴ Bi(19.9 m)	609.312(44.8), 1764.494(15.36), 1120.287(14.80)
• 1156.03 16	0.051 9	¹⁶⁹ Lu(34.06 h)	960.622(23.4), 191.2137(20.6), 1449.74(9.92)
1156.09 10	3.8 3	¹⁹⁷ Pb(8 m)	385.85(50), 761.14(13.3), 375.48(12.8)
1156.1	0.23	¹⁹⁹ Po(4.13 m)	1002.19(19), 1034.3(16), 362.01(7)
1156.28 12	0.00016 12	¹⁰⁶ Rh(29.80 s)	511.842(20), 621.94(9.93), 1050.39(1.56)
1156.3 4	0.0036 10	⁹¹ Mo(15.49 m)	1636.99(0.329), 1581.04(0.226), 2631.97(0.118)
1156.3 1	3.4	¹⁰⁴ Sn(20.8 s)	132.7(56), 912.6(42), 401.2(16.2)
1156.3 3	0.069 25	¹³³ Te(12.5 m)	312.072(62), 407.63(27.1), 1333.21(10.67)
1156.3 4	0.0010 5	¹⁴⁹ Nd(1.728 h)	211.309(25.9), 114.314(19.2), 270.166(10.7)
1156.3	0.58 10	¹⁵⁰ Pr(6.19 s)	130.2(32), 722.5(7.0), 852.7(6.1)
1156.3 5	0.40 4	¹⁶¹ Tm(33 m)	45.54(5.00), 1648.1(9.50), 84.40(9.4)
1156.41 15	8.4 6	⁸¹ Ge(7.6 s)	335.98(58.9), 792.94(34), 1495.53(19.9)
1156.54 7	0.316 25	²⁰⁸ Rn(24.35 m)	426.78(7.07), 251.05(5.02), 350.026(3.34)
1156.60 6	0.0018 4	¹⁹⁴ Ir(19.15 h)	328.455(13.1), 293.545(2.55), 645.157(1.17)
• 1156.60 6	0.44 4	¹⁹⁴ Au(38.02 h)	328.455(60), 293.545(10.2), 1468.91(6.3)
1156.7	0.47 8	⁴⁰ Cl(1.35 m)	1460.830(79), 2839.8(30.4), 2621.5(15.4)
1156.7 4	0.29 11	¹³⁹ Sm(2.57 m)	273.7(37), 306.7(28.5), 596.3(8.0)
1156.77 7	1.05 4	⁵⁸ Mn(65.3 s)	810.764(<0.026), 1323.09(6.44), 459.160(21.4)
1156.8 5	0.20 5	¹⁰⁰ Cd(49.1 s)	936.55(66), 139.71(6.7), 582.5(6.3)
1156.80 14	†6.6 5	¹⁴² Xe(1.22 s)	571.83(†100), 657.05(†79), 538.24(†77)
1156.8 5	0.025 5	¹⁴³ Ba(14.33 s)	211.475(25), 798.79(15.6), 980.45(11.55)
1156.8 4	0.48 24	¹⁵⁴ Ho(11.76 m)	334.6(84), 412.4(15.0), 873.4(12.5)
1156.90 15	0.12 3	¹⁵¹ Nd(12.44 m)	116.80(43.4), 255.68(16.4), 1180.89(14.8)
1156.90 15	0.07 3	¹⁵¹ Nd(12.44 m)	116.80(43.4), 255.68(16.4), 1180.89(14.8)
1156.9 10		¹⁹⁹ Bi(27 m)	560.1(22.0), 424.85(22), 841.7(11)
1156.92 18	0.0071 7	⁸¹ Rb(30.5 m)	49.56(0.78), 643.6(0.115), 1194.9(0.112)
1157.0 2	0.4	⁹⁶ Rh(9.90 m)	832.57(100), 685.49(95.7), 631.71(74.5)
1157.0 7	1.1 4	¹⁸⁷ Pt(2.35 h)	106.46(9), 201.52(6.4), 110.04(5.7)
1157.031	58	⁴⁴ K(22.13 m)	2150.76(22.7), 2518.95(9.69), 1499.43(7.8)
1157.031	99.9	⁴⁴ Sc(3.927 h)	1499.43(0.912), 2656.41(0.115), 2144.2(0.0069)
• 1157.031	1.2	⁴⁴ Sc(58.6 h)	1001.85(1.2), 1126.08(1.2)
1157.07 10	3.56 16	¹²¹ Ag(0.78 s)	314.55(32.1), 353.43(19.9), 500.61(9.3)
1157.09 11	0.316 24	⁹³ Kr(1.286 s)	253.42(41.2), 323.89(24.1), 266.83(20.6)
1157.14 15	0.0072 13	²²⁸ Ac(6.15 h)	911.205(26.6), 968.971(16.2), 338.322(11.3)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
1157.2 4	0.66 11	⁹⁹ Pd(21.4 m)	136.00(73), 263.60(15.2), 673.38(6.9)
1157.2 2	0.096 12	¹⁴⁷ Pr(13.4 m)	77.9921(15), 314.675(13.2), 641.380(10.0)
1157.2	1.16 12	¹⁴⁸ Pr(2.27 m)	301.702(61), 1357.78(5.5), 1023.18(4.8)
• 1157.2 4	0.0062 16	¹⁵³ Tb(2.34 d)	212.038(31.0), 170.504(6.8), 109.758(6.4)
1157.3 6	0.8 3	⁷⁸ Zn(1.47 s)	224.75(43.9), 181.68(28.1), 860.30(24.5)
1157.3 3	1.16 12	¹⁴⁸ Pr(2.27 m)	301.702(61), 1357.78(5.5), 1023.18(4.8)
• 1157.3127 ∞ .59 10		¹⁸² Ta(114.43 d)	67.75001(41.2), 1121.3007(34.9), 1221.4066(26.98)
1157.3127 ∞ .57 6		¹⁸² Re(12.7 h)	67.75001(38.2), 1121.3007(32), 1221.4066(24.8)
• 1157.3127 ∞ .37 4		¹⁸² Re(64.0 h)	229.3220(26), 67.75001(22.2), 1121.3007(22.0)
1157.4 1	2.8 3	¹⁰⁴ Tc(18.3 m)	358.0(89), 530.5(15.6), 535.1(14.7)
1157.40 10	2.8 3	¹¹⁸ Ag(2.0 s)	487.77(57), 677.13(53), 1058.39(14.8)
1157.4 5	0.16 3	¹⁵¹ Tb(17.609 h)	287.357(28.3), 251.863(26.3), 108.088(24.3)
1157.41 10	3.4	¹⁷⁶ Ta(8.09 h)	1159.28(25), 88.34(12), 1224.93(6)
1157.47 3	11.3 4	¹³⁰ I(12.36 h)	536.09(99), 668.54(96), 739.48(82)
1157.5	0.07	¹⁸⁵ Ir(14.4 h)	254.4(13.3), 1828.8(10), 60.0(5.7)
1157.52 4	0.0005 3	¹⁵ C(2.449 s)	5297.817(63.2), 8310.15(0.032), 9046.78(0.031)
1157.54 7	0.0072 11	¹²⁸ Cs(3.66 m)	442.901(26.8), 526.557(2.41), 1140.079(1.168)
1157.55 9	0.134 16	²⁰¹ Pb(9.33 h)	331.19(79), 361.27(9.9), 945.96(7.4)
1157.6 3	0.007 4	¹⁸³ Os(13.0 h)	381.768(89.6), 114.463(20.63), 167.844(8.81)
1157.61 4	0.52 6	²⁰⁴ Bi(11.22 h)	899.15(98), 374.72(82), 984.02(59)
1157.7 5	0.10 3	⁹⁹ Nb(2.6 m)	97.785(7), 253.50(3.64), 2641.3(3.64)
1157.7 5	0.22 7	¹⁵⁰ Tb(3.48 h)	638.05(72), 496.3(14.8), 792.5(4.39)
1157.8 3	0.51 9	¹⁰⁹ Sn(18.0 m)	1099.4(30), 649.90(28.0), 1321.3(11.9)
1157.95 9	0.020 4	¹⁸⁹ Pt(10.87 h)	721.41(9.3), 94.33(7.6), 568.84(7.1)
1158.0 8	0.12 6	¹⁰³ Cd(7.3 m)	1461.81(12), 1448.70(5.55), 1079.90(5.44)
1158.0 7	0.090 24	¹⁰⁷ In(32.4 m)	204.97(47), 505.51(11.9), 320.92(10.2)
1158.0 6	\dagger 0.82 14	¹²⁰ I(81.0 m)	560.44(\dagger 137), 1523.0(\dagger 21.1), 640.85(\dagger 17.1)
1158.0 6	2.7 5	¹²⁰ I(53 m)	560.44(100), 601.11(87), 614.62(67)
1158 1	0.43	¹²⁵ Cs(45 m)	526(24), 111.8(9), 412(5)
1158.0 5	0.013 4	¹³¹ La(59 m)	108.081(25.0), 417.783(18.0), 365.162(16.9)
1158 1	0.22	¹⁴² Gd(70.2 s)	750.2(11.2), 178.90(11.20), 284.4(6.16)
1158.0 5	0.034 9	¹⁵¹ Tb(17.609 h)	287.357(28.3), 251.863(26.3), 108.088(24.3)
1158.0 2	0.05 3	¹⁶³ Tm(1.810 h)	104.320(18.6), 69.229(11.6), 241.305(10.9)
1158.0 7	0.043 13	¹⁶³ Yb(11.05 m)	860.28(10.1), 63.62(6.5), 123.21(1.98)
1158.01 18	0.265 23	⁸⁰ Ga(1.697 s)	659.14(78.0), 1083.47(48.4), 1109.36(18.6)
• 1158.0817 ∞ .40 6		¹⁸² Ta(114.43 d)	67.75001(41.2), 1121.3007(34.9), 1221.4066(26.98)
1158.0817 ∞ .10 3		¹⁸² Re(12.7 h)	67.75001(38.2), 1121.3007(32), 1221.4066(24.8)
• 1158.0817 ∞ .88 4		¹⁸² Re(64.0 h)	229.3220(26), 67.75001(22.2), 1121.3007(22.0)
• 1158.10 6	\dagger 0.60 4	¹⁰² Rh(207 d)	475.070(\dagger 47), 628.05(\dagger 4.6), 1103.16(\dagger 2.99)
1158.2 4	0.0032 11	⁷³ Se(7.15 h)	360.80(108), 67.03(78), 865.09(0.584)
1158.2 5	0.148 15	⁷⁶ Br(16.2 h)	559.101(74), 657.041(15.9), 1853.67(14.7)
1158.2 8	0.038 13	¹⁰³ Ag(65.7 m)	118.72(31.2), 148.193(28.3), 266.86(13.3)
1158.2 4	1.5 3	¹²⁸ Sb(9.01 h)	753.82(100), 743.22(100), 314.12(61)
1158.2 4	1.74 19	¹²⁸ Sb(10.4 m)	753.82(96.4), 743.22(96), 314.12(89)
1158.2 6	\dagger 7 2	¹³⁵ Pm(49 s)	198.5(\dagger 100), 207.2(\dagger 70), 463.5(\dagger 62)
1158.2 1	0.56 8	¹⁴³ Gd(112 s)	271.94(84), 588.00(15.7), 798.89(10.7)
• 1158.2 9	0.008 5	¹⁴⁷ Eu(24.1 d)	197.299(27), 121.220(22.9), 677.516(9.8)
1158.3 4	0.76 8	⁹⁷ Rh(30.7 m)	421.55(75), 840.13(12.0), 878.80(9.0)
1158.3 5	0.008 3	¹⁵¹ Tb(17.609 h)	287.357(28.3), 251.863(26.3), 108.088(24.3)
1158.38 4	0.70 18	⁹⁵ Ru(1.643 h)	336.43(70.2), 1096.76(21.0), 626.77(17.8)
1158.38 4	0.84 20	⁹⁵ Ru(1.643 h)	336.43(70.2), 1096.76(21.0), 626.77(17.8)
1158.4 2	1.98 21	⁸³ As(13.4 s)	734.60(43), 1113.10(14.7), 2076.70(11.9)
1158.42 15	0.094	¹³⁷ I(24.5 s)	1218.00(12.8), 601.05(4.80), 1302.64(4.42)
1158.44 17	0.280 19	⁹¹ Mo(65.0 s)	1507.93(24.3), 1208.09(18.7), 2240.87(0.73)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
• 1158.45 ₃₀	0.0206 ₁₃	¹⁷⁰ Lu(2.00 d)	84.2551(4.256), 1280.25(3.450), 2041.88(1.434)
1158.47 ₆	0.0123 ₁₀	²⁴⁶ Am(25.0 m)	1078.86(27.7), 798.80(25), 1062.04(17.1)
1158.5 ₃	0.046 ₄	⁷⁷ Kr(74.4 m)	129.64(81), 146.59(37.3), 312.0(3.7)
1158.50 ₂₀	0.030 ₃	⁹³ Y(10.18 h)	266.9(7.3), 947.1(2.09), 1917.8(1.55)
1158.5 ₇	0.21 ₄	⁹⁹ Rh(4.7 h)	340.71(70), 617.8(12.0), 1261.2(11)
1158.5 ₈	0.021 ₁₄	¹⁴⁰ Cs(63.7 s)	602.345(71.1), 908.25(11.6), 1200.25(6.39)
1158.5 ₃	0.47	¹⁸¹ Au(11.4 s)	198.60(4.4), 2022.4(4.2), 79.40(4.2)
1158.56 ₉	†4.7 ₇	¹⁶⁸ Lu(5.5 m)	1483.65(†100), 228.58(†97), 111.8(†68)
1158.6 ₃	1.8 ₆	¹⁵² Ho(49.5 s)	647.2(92), 613.8(88.4), 683.3(88)
1158.7 ₅	0.021 ₇	⁷⁹ Rb(22.9 m)	688.1(23), 182.77(19.2), 143.41(13.9)
1158.7 ₂	1.3	¹⁴⁶ Cs(0.343 s)	181.02(57.0), 557.76(9.18), 332.38(6.44)
1158.73 ₁₅	†9	¹⁸¹ Pt(51 s)	289.29(†100), 111.97(†100), 230.15(†92)
1158.8 ₇	0.10 ₅	⁹¹ Kr(8.57 s)	108.788(43.5), 506.592(19.1), 612.87(7.7)
1158.8 ₂	†124 ₄₈	¹⁵⁷ Ho(12.6 m)	279.97(†47600), 341.16(†37000), 193.41(†15200)
1158.80 ₁₁	0.84 ₅	²⁰⁹ Rn(28.5 m)	408.32(50.3), 745.78(22.8), 337.45(14.5)
1158.90 ₂₀	0.52 ₁₃	⁹⁹ Ag(124 s)	264.41(65), 832.29(13.5), 805.07(12.5)
1158.9 ₂	0.54 ₅	¹⁶¹ Er(3.21 h)	826.6(3.0), 211.15(12.2), 592.6(3.7)
1159 ₁	0.08 ₁	⁸⁷ Zr(1.68 h)	1227(1.0), 1209.8(0.33), 1024(0.28)
1159		¹⁰⁹ Tc(0.87 s)	194.6(†100), 128.7(†51), 96.2(†48)
1159.0 ₅	†9 ₂	¹³⁰ Sn(1.7 m)	144.9(†100), 899.2(†49), 84.7(†42)
• 1159.04 ₆	7.25 ₃	¹⁵⁶ Tb(5.35 d)	534.318(66.6), 199.2132(40.9), 1222.36(31.00)
1159.05 ₅₁	0.08 ₃	¹⁴¹ Xe(1.73 s)	909.23(24.0), 118.705(16.1), 105.937(9.8)
1159.10 ₈	0.33 ₃	¹³⁴ I(52.6 m)	847.025(95.4), 884.090(64.9), 1072.547(15.0)
1159.1 ₃	0.183 ₂₄	¹⁵³ Dy(6.4 h)	80.723(11.10), 213.754(10.90), 99.659(10.51)
1159.18 ₅	0.0446 ₆	¹²⁷ Cs(6.25 h)	411.95(62.8), 124.70(11.37), 462.31(5.07)
1159.2 ₇	0.93 ₁₉	¹²⁷ Sn(2.10 h)	1114.3(39), 1095.6(20), 823.1(10.9)
1159.2 ₅	†3.1 ₃	¹⁸² Ir(15 m)	273.23(†100), 126.79(†77), 236.3(†21.0)
1159.2 ₂	0.0060 ₂₀	²⁴⁰ Np(7.22 m)	554.60(20.9), 597.40(11.7), 1496.9(1.33)
1159.28 ₉	0.00139 ₄	¹⁷⁶ Lu(3.635 h)	88.34(0.55640), 1061.61(0.000762), 201.83(>0.0007)
1159.28 ₉	25	¹⁷⁶ Ta(8.09 h)	88.34(12), 1224.93(6), 201.83(6)
1159.30 ₁₇	0.031 ₄	¹³⁹ Cs(9.27 m)	1283.23(8.3), 627.24(1.78), 1420.66(0.91)
1159.4 ₃	0.058 ₁₂	¹⁵¹ Nd(12.44 m)	116.80(43.4), 255.68(16.4), 1180.89(14.8)
1159.4 ₅	0.062 ₁₀	¹⁵⁹ Eu(18.1 m)	67.8(19), 78.6(9.1), 95.7(7.0)
1159.44 ₄	0.0088 ₂₁	¹⁹⁹ Pt(30.80 m)	542.993(15), 493.772(5.59), 317.056(4.95)
1159.49 ₂₂	†16.0 ₁₉	¹⁰² Y(0.30 s)	151.73(†100), 1211.08(†40), 1059.21(†29)
1159.5 ₂	†0.60 ₁₃	¹⁵⁸ Ho(11.3 m)	218.21(†100.0), 98.91(†70), 945.7(†37)
1159.5 ₅	0.53 ₂₀	¹⁸¹ Os(105 m)	238.75(44), 826.77(20), 118.03(12.9)
1159.5	†<5	²³⁸ Pa(2.3 m)	1015.3(†<100), 1014.6(†<100), 635.18(†88)
1159.52 ₁₀	0.013 ₃	¹⁵⁵ Sm(22.3 m)	104.3346(74.6), 245.771(3.7), 141.4428(1.98)
1159.68 ₁₄	0.020 ₄	¹⁸⁹ Pt(10.87 h)	721.41(9.3), 94.33(7.6), 568.84(7.1)
1159.74 ₂₀	†4.8 ₁₀	¹⁸⁹ Hg(7.6 m)	320.99(†100), 78.21(†63), 565.42(†48)
1159.75 ₁₆	0.033	¹⁰⁵ Cd(55.5 m)	961.84(4.69), 346.870(4.20), 1302.459(3.98)
1159.75	>0.033	¹⁰⁵ Cd(55.5 m)	961.84(4.69), 346.870(4.20), 1302.459(3.98)
1159.9 ₂	0.104 ₂₃	¹³⁵ I(6.57 h)	1260.409(28.90), 1131.511(22.74), 1678.027(9.62)
1159.9 ₃	†0.23 ₅	¹⁶⁰ Ho(5.02 h)	728.18(†100), 879.383(†65.9), 962.317(†59.1)
• 1159.920 _{160.100}	10	⁵⁶ Co(77.27 d)	846.771(100), 1238.282(67.6), 2598.459(17.28)
1159.94 ₆	0.066 ₁₁	⁶⁹ As(15.2 m)	232.69(11), 145.95(4.96), 86.78(3.44)
• 1159.97 ₁₀	1.48 ₅	⁸³ Sr(32.41 h)	762.65(30), 381.53(14.1), 418.37(4.41)
• 1160		¹²⁴ I(4.18 d)	602.730(60), 1690.980(10.41), 722.786(9.98)
1160.0 ₂	†5.8 ₉	¹⁵² Tb(17.5 h)	344.281(†1500), 586.294(†223), 271.135(†203)
1160.09 ₁₂	0.00157 ₁₅	¹⁶¹ Gd(3.66 m)	360.94(0.59), 314.92(22.7), 102.315(13.9)
• 1160.15 ₁₅	0.67 ₄	¹⁴⁷ Gd(38.06 h)	229.32(63), 396.00(34.3), 929.01(20.2)
1160.17 ₉	†1.20 ₈	¹⁸⁴ Ir(3.09 h)	263.97(†100), 119.80(†45), 390.38(†38)
1160.18 ₂₀	0.35 ₈	¹⁹³ Hg(11.8 h)	257.97(61), 407.63(25), 573.25(14.2)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
1160.2 4	0.81 17	¹²⁷ Cd(0.43 s)	1235.07(8.3), 376.28(7.5), 523.60(5.15)
1160.2 5	1.71 5	¹⁴² La(91.1 m)	641.285(47), 2397.8(13.3), 2542.7(10.00)
1160.2 3	0.062 17	¹⁵³ Dy(6.4 h)	80.723(11.10), 213.754(10.90), 99.659(10.51)
1160.32 10	0.23 4	²⁰⁸ At(1.63 h)	686.527(98), 660.040(89), 177.595(48.6)
1160.33 10	0.63 5	⁷⁴ Ga(8.12 m)	595.847(91), 2353.46(44.5), 608.353(14.3)
1160.37 8	0.28 9	¹⁵⁴ Tb(21.5 h)	123.071(26), 1274.436(10.5), 2187.10(9.9)
1160.4 4	2.4 5	¹²⁷ Sn(2.10 h)	1114.3(39), 1095.6(20), 823.1(10.9)
1160.4 11	2.0 11	¹⁶⁸ Ta(2.0 m)	124.0(35.6), 261.6(22.7), 751.4(7.3)
• 1160.4 5	0.030 9	¹⁹⁰ Ir(11.78 d)	186.718(52.4), 605.24(39.9), 518.55(34.0)
1160.47 25	0.035 6	⁸⁹ Rb(15.15 m)	1031.94(58), 1248.19(42.6), 2196.02(13.3)
• 1160.5 3	0.0440 18	¹⁵⁴ Eu(8.593 y)	123.071(40.79), 1274.436(35.19), 723.304(20.22)
1160.5 4	0.16 5	¹⁵⁶ Tm(83.8 s)	344.55(86), 452.85(17.2), 585.93(14.6)
1160.5 10	0.129 18	²⁰⁵ At(26.2 m)	719.30(31), 669.41(8.6), 628.88(5.6)
• 1160.58 6	0.0024 3	¹⁴³ Ce(33.039 h)	293.266(42.80), 57.356(11.7), 664.571(5.69)
1160.6 2	0.86 8	⁹⁶ Rb(0.199 s)	815.0(78.00), 692.0(8.0), 813.2(7.0)
1160.6 2	0.6	⁹⁷ Rb(169.9 ms)	815.0(100), 692.0(16.5), 414.3(15.0)
1160.6 5	†2.02 25	²⁰¹ Po(15.3 m)	890.1(†100), 240.1(†71.0), 904.2(†54.8)
1160.8 7	0.12 3	¹⁰⁷ In(32.4 m)	204.97(47), 505.51(11.9), 320.92(10.2)
1160.8 1	0.148 25	¹²⁹ La(11.6 m)	278.6(25), 110.5(16.9), 457.0(8.0)
1160.8	1.10 5	¹⁴¹ Ba(18.27 m)	190.328(46.0), 304.194(25.4), 276.948(23.4)
1160.8 3	0.18 3	¹⁸¹ Au(11.4 s)	198.60(4.4), 2022.4(4.2), 79.40(4.2)
1160.8 3	0.112 14	¹⁸⁷ Au(8.4 m)	1331.81(7.0), 1408.23(3.06), 914.73(3.02)
1160.8 3	0.011 3	²⁰⁸ Tl(3.053 m)	2614.533(99), 583.191(84.5), 510.77(22.6)
1160.82 15	†35 5	¹⁸⁹ Au(28.7 m)	713.17(†100), 812.68(†63), 447.65(†55)
1160.85 22	0.00150 14	¹³⁷ Ce(9.0 h)	447.15(1.8), 10.6(0.8), 436.59(0.265)
1160.96 18	0.098 13	¹³⁸ Xe(14.08 m)	258.411(31.5), 434.562(20.3), 1768.26(16.7)
1161 2	0.163 22	⁷⁶ Br(16.2 h)	559.101(74), 657.041(15.9), 1853.67(14.7)
1161.00 4	3.97 21	¹⁰¹ Mo(14.61 m)	191.92(19), 590.91(16.4), 1012.47(12.8)
1161.0 5	0.54 21	¹⁰⁵ In(5.07 m)	131.37(41), 260.21(15.7), 604.11(9.2)
1161.0 5	†8.7 10	¹¹³ I(6.6 s)	462.5(†100), 622.4(†74), 351.5(†43)
1161.0 4	0.72 16	¹⁹⁰ Au(42.8 m)	295.78(71.0), 301.82(23.4), 597.67(9.4)
1161 1	†1.8 7	¹⁹¹ Tl(5.22 m)	452.6(†100), 470.1(†98), 391.6(†96)
1161.04 4	0.0150 5	¹⁴⁵ Pr(5.984 h)	748.278(0.5250), 675.795(0.514), 72.500(0.261)
1161.1 6	0.0068 13	¹⁶² Tb(7.60 m)	260.070(37.2), 807.53(42.8), 888.20(38.7)
1161.1 4	0.52 16	¹⁸³ Os(9.9 h)	1101.94(49.0), 1107.92(22.36), 1034.85(6.02)
1161.2 2	†6.5 1	¹¹⁴ Te(15.2 m)	90.28(†100), 83.8(†67), 1417.6(†32)
1161.2 1	1.77 23	¹¹⁸ I(8.5 m)	605.71(99), 600.71(92), 614.42(65)
1161.2 3		¹⁴⁶ Dy(29 s)	2156.8, 1915.7, 1876.7
1161.2 3	0.28 3	¹⁵³ Dy(6.4 h)	80.723(11.10), 213.754(10.90), 99.659(10.51)
1161.2 3	0.19 3	¹⁹¹ Au(3.18 h)	586.45(17), 277.88(7.2), 674.19(6.8)
1161.2 7	0.31 6	²⁰¹ Bi(108 m)	629.1(24.0), 936.2(11.3), 1014.1(10.7)
1161.27 9	0.86 6	¹⁹⁹ Pb(90 m)	366.90(44.2), 353.39(9.5), 1135.04(7.8)
1161.3 3	0.19 6	⁷⁴ Br(25.4 m)	634.78(64), 219.05(18.1), 634.26(14.1)
1161.3 3	0.103 10	¹²³ Xe(2.08 h)	148.9(49), 178.1(14.9), 330.2(8.6)
1161.31 8	56.0 11	¹²⁹ Sn(6.9 m)	1128.44(50), 760.8(16.8), 782.48(15)
1161.4 4	†0.7 2	¹³⁸ Pm(3.24 m)	520.9(†100), 729.0(†37.8), 493.1(†21.6)
1161.4 2	†9	¹³⁹ I(2.29 s)	527.7(†100), 571.2(†98), 536.6(†67)
1161.4 2	†3.11 14	¹⁵⁸ Ho(11.3 m)	218.21(†100.0), 98.91(†70), 945.7(†37)
1161.4 8	0.49 3	¹⁶⁷ Lu(51.5 m)	29.66(14.4), 239.22(8.6), 213.19(3.6)
1161.4 2	0.0010	²³⁹ U(23.45 m)	74.664(48), 43.533(4.14), 662.24(0.18)
1161.5	†<5	²³⁸ Pa(2.3 m)	1015.3(†<100), 1014.6(†<100), 635.18(†88)
1161.6 5	1.5 4	¹⁹⁵ Pb(15.0 m)	383.64(106.9), 394.21(44), 878.40(24.2)
1161.68 5	0.0221 7	¹⁵⁹ Ho(33.05 m)	121.012(36.2), 131.973(23.6), 309.594(17.2)
1161.7 6	0.014 9	⁷⁹ Rb(22.9 m)	688.1(23), 182.77(19.2), 143.41(13.9)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
1161.7 3	0.35 6	¹¹⁸ Cs(14 s)	337.4(100), 472.8(37.4), 586.6(15.4)
1161.7 3	0.40 5	¹⁸⁴ Au(53.0 s)	162.97(50), 272.98(40), 362.47(17.5)
1161.78 18	0.096 12	¹⁶⁵ Yb(9.9 m)	80.11(49), 68.86(9.1), 1090.28(4.4)
1161.79 10	0.69 8	⁹⁴ Y(18.7 m)	918.74(56), 1138.88(6.0), 550.88(4.9)
1161.8 3	0.9 3	¹⁰⁸ Sn(10.30 m)	396.44(64.3), 272.75(45.5), 669.08(22.6)
1161.8 10	0.107 22	¹²⁹ Sb(4.40 h)	812.8(43), 914.6(20.0), 544.7(17.9)
1161.9 2	0.032 5	¹⁰⁷ Ru(3.75 m)	194.05(9.9), 847.93(5.3), 462.61(3.66)
• 1161.9	0.011	¹⁴⁶ Eu(4.59 d)	747.2(98), 633.03(43), 634.07(37)
1161.955 160.714 17		¹⁶⁶ Tm(7.70 h)	778.817(18.9), 2052.36(17.2), 184.410(16.1)
1162 1	0.15 8	⁹⁷ Rh(30.7 m)	421.55(75), 840.13(12.0), 878.80(9.0)
1162.0 1	0.312 14	¹⁴⁶ Ba(2.22 s)	140.7(20.2), 251.2(19.6), 121.2(14.2)
1162.0 10	0.35 3	²²⁸ Fr(39 s)	473.7(10.2), 474.0(7.6), 410.40(6.3)
1162.02 6	0.0096 13	¹²⁸ Cs(3.66 m)	442.901(26.8), 526.557(2.41), 1140.079(1.168)
1162.17 8	0.7 3	⁵⁹ Mn(4.6 s)	726.7(42), 472.71(29.0), 570.81(24.8)
1162.2 1	†10.3 13	¹⁷¹ Hf(12.1 h)	122.0(†100), 662.2(†83), 347.18(†47)
1162.23 18	0.37 10	²⁰⁴ At(9.2 m)	684.341(95), 516.318(90), 426.253(67.5)
1162.32 7	0.0088 5	¹⁴⁵ Pr(5.984 h)	748.278(0.5250), 675.795(0.514), 72.500(0.261)
• 1162.35 30	0.0403 22	¹⁷⁰ Lu(2.00 d)	84.2551(4.256), 1280.25(3.450), 2041.88(1.434)
1162.4 7	0.78 8	¹⁹⁹ Bi(27 m)	560.1(22.0), 424.85(22), 841.7(11)
1162.47 6	0.95 11	¹⁷² Ta(36.8 m)	214.02(46), 95.23(17.5), 1109.27(12.4)
• 1162.49 7	0.180 12	¹⁶⁹ Lu(34.06 h)	960.622(23.4), 191.2137(20.6), 1449.74(9.92)
1162.50 10	0.215 20	⁸⁹ Kr(3.15 m)	220.948(20.1), 586.03(16.6), 904.27(7.2)
1162.5 5	†4 2	¹³⁴ Pr(17 m)	1964.1(†100), 1904.3(†100), 1579.9(†100)
1162.5 4	0.57	¹⁵⁴ Pm(2.68 m)	184.810(32), 81.99(15.4), 546.66(14.5)
1162.60 10	1.56 9	¹⁰⁶ In(5.2 m)	632.66(92), 1714.90(17.1), 861.16(10.6)
1162.6 2	2.71 19	²³⁰ Fr(19.1 s)	711.0(13.6), 129.1(11.0), 728.4(7.3)
• 1162.7 2	0.035 10	¹³¹ Te(30 h)	773.67(49.9), 852.21(27.0), 793.75(18.10)
1162.79 3	1.229 13	¹⁸³ Os(13.0 h)	381.768(89.6), 114.463(20.63), 167.844(8.81)
1162.8 2	0.76 8	¹⁴³ Gd(112 s)	271.94(84), 588.00(15.7), 798.89(10.7)
1162.8 5	0.023 16	¹⁶¹ Er(3.21 h)	826.6(3.0), 211.15(12.2), 592.6(3.7)
1162.9 5	0.34 5	⁹⁶ Rh(9.90 m)	832.57(100), 685.49(95.7), 631.71(74.5)
1162.9 3	1.21 6	¹⁵⁸ Sm(5.30 m)	189.4(15.2), 363.6(12.4), 324.5(10.6)
1163 1	0.33 5	⁵¹ Sc(12.4 s)	1437.3(52), 2144.1(31.8), 1567.5(14.9)
1163.0 3	0.25 5	⁹⁵ Rb(377.5 ms)	352.02(49), 204.02(15.1), 680.7(14.8)
1163.0 3	†1.4	⁹⁶ Rb(0.199 s)	352.02(†700), 204.02(†200), 680.7(†121)
1163.0 3	4.5 10	¹²⁰ In(47.3 s)	1171.3(100), 1023.1(97.4), 197.3(80.6)
1163.0 1	0.037 3	¹⁵¹ Tb(17.609 h)	287.357(28.3), 251.863(26.3), 108.088(24.3)
1163.0 3	0.131 20	¹⁸¹ Au(11.4 s)	198.60(4.4), 2022.4(4.2), 79.40(4.2)
1163.03 10	1.18 4	⁸⁶ Y(14.74 h)	1076.64(83), 627.72(32.6), 1153.01(30.5)
1163.04 10	0.75 7	²²⁴ Fr(3.30 m)	215.985(33.1), 131.613(16.3), 836.90(9.8)
1163.08 18	0.25	¹⁸⁶ Ta(10.5 m)	197.93(50), 214.87(42.3), 510.82(37.5)
1163.11 13	0.075 7	⁷² Ga(14.10 h)	834.01(96), 2201.69(25.9), 629.95(24.8)
• 1163.11 13	0.0135 16	⁷² As(26.0 h)	834.01(80), 629.95(7.92), 1463.95(1.107)
1163.14 14	0.85 7	¹⁵⁷ Sm(482 s)	197.870(56.00), 196.461(16.8), 394.351(11.93)
• 1163.16 8	0.045 8	¹¹⁰ Ag(249.79 d)	657.7622(94.0), 884.685(72.2), 937.493(34.13)
• 1163.2 2	0.0186 10	¹²⁴ Sb(60.20 d)	602.730(97.8), 1690.980(47.3), 722.786(10.76)
1163.2 3	0.094 15	¹⁴² Eu(2.34 s)	768.1(10), 1658.1(1.75), 1754.1(1.49)
1163.20 30	0.089 22	²⁰⁷ At(1.80 h)	814.41(44.5), 588.33(19.2), 300.654(12.8)
1163.28 7	0.29 10	¹¹⁰ In(4.9 h)	657.7622(98.3), 884.685(92.9), 937.493(68.4)
1163.3 3	0.34 4	¹¹¹ Pd(5.5 h)	70.44(8.3), 391.25(5.4), 632.80(3.6)
1163.3 3	0.028 8	¹⁴³ Eu(2.63 m)	1107.3(8), 1536.8(3.29), 1912.7(2.13)
1163.4 1	67.3 8	⁶² Co(13.91 m)	1172.9(97), 2003.48(18.4), 1718.6(6.7)
1163.5 4	0.18 3	²⁰² Bi(1.72 h)	960.67(99), 422.18(83.7), 657.49(60.6)
1163.6 2	0.010 6	¹⁰¹ Pd(8.47 h)	296.29(19), 590.44(12.06), 269.67(6.43)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
1163.6 4	0.38 6	¹²² Cs(21.0 s)	331.1(48), 512.0(3.8), 817.9(3.09)
1163.6 6	0.99 10	¹⁷⁶ Tm(1.9 m)	189.57(44.5), 1069.3(34), 381.8(21.8)
1163.61 3	15.4 6	¹²² In(10.3 s)	1140.55(98), 1001.58(50.7), 1190.58(20.5)
1163.8 4	0.70 13	⁶³ Co(27.4 s)	87.13(48.7), 981.7(2.11), 155.6(1.60)
• 1163.84 5	0.0310 19	¹²⁵ Sn(9.64 d)	1067.10(10), 1089.15(4.59), 822.48(4.28)
1163.85 6	32000 4	¹¹⁹ In(18.0 m)	1065.55(†80000), 1249.71(†44000), 1089.9(†15000)
1163.9 3	0.39 10	¹²¹ Cs(122 s)	179.4(30.2), 196.0(24.1), 459.7(12.0)
1163.96 20	0.09 3	¹⁹⁵ Tl(1.16 h)	563.52(10.5), 884.47(10.0), 1363.88(8.4)
1164.0 3	0.66 6	⁷⁵ Zn(10.2 s)	228.67(28.9), 432.29(20.2), 155.94(17.2)
1164.0 3	0.13 3	¹³⁴ I(52.6 m)	847.025(95.4), 884.090(64.9), 1072.547(15.0)
1164.0 1	4.5 18	¹⁴¹ Gd(24.5 s)	351.1(89), 223.9(64), 574.9(51)
1164.1 7	0.21 4	¹²⁴ In(3.17 s)	1131.64(68), 3214.15(21.5), 997.79(21.1)
1164.1 5	†0.6 3	¹⁸⁵ Pt(33.0 m)	229.60(†100), 135.3(†80), 197.4(†74)
1164.2 2	†0.99 9	¹²⁹ Ba(2.17 h)	182.30(†100), 1459.1(†50.0), 202.38(†33.7)
• 1164.2 3	0.065 6	¹⁵⁶ Eu(15.19 d)	811.79(9.70), 88.9667(8.4), 1230.68(7.98)
1164.20 17	0.320 25	¹⁶⁷ Lu(51.5 m)	29.66(14.4), 239.22(8.6), 213.19(3.6)
1164.29 11	0.49 4	²⁰⁸ At(1.63 h)	686.527(98), 660.040(89), 177.595(48.6)
1164.3 8	1.5 4	¹¹⁶ Cs(3.84 s)	393.5(<0.09), 524.3(76), 615.1(30.4)
1164.36 25	0.090 14	⁹³ Rb(5.84 s)	432.61(17.4), 986.05(6.8), 213.429(6.7)
1164.40 30	0.076 3	⁵¹ Mn(46.2 m)	749.07(0.26), 1148.01(0.078), 2001.1(0.0371)
1164.4 20	0.04 3	¹⁴⁰ Cs(63.7 s)	602.345(71.1), 908.25(11.6), 1200.25(6.39)
1164.4 6	0.075 6	²²⁸ Pa(22 h)	911.205(4.19), 463.005(1.250), 964.770(4.25)
1164.5 10	0.36 22	¹⁸¹ Os(105 m)	238.75(44), 826.77(20), 118.03(12.9)
1164.5	0.010	²¹⁰ Rn(2.4 h)	458.25(1.7), 648.70(0.843), 570.95(0.840)
1164.50 8	0.067 5	²²⁸ Ac(6.15 h)	911.205(26.6), 968.971(16.2), 338.322(11.3)
• 1164.5 5	0.015 3	²³² Pa(1.31 d)	969.315(41.6), 894.351(19.8), 150.059(10.8)
1164.53 3	1.31 8	⁸¹ Ga(1.221 s)	216.47(37.4), 828.26(22.1), 711.18(17.6)
1164.6 2	1.1	¹²⁹ Ba(2.23 h)	6.545(23.7), 214.30(13.4), 220.83(8.54)
1164.6 5	†4.8	¹⁷⁹ Os(6.5 m)	65.39(†100), 218.6(†17), 32.3(†17)
1164.65 12	0.0501 11	⁷⁷ Ge(11.30 h)	264.44(54), 211.03(30.8), 215.50(28.6)
• 1164.7 5		¹⁴⁶ Eu(4.59 d)	747.2(98), 633.03(43), 634.07(37)
1164.7 2	†2.7 3	¹⁸⁵ Hg(21.6 s)	222.8(†100.0), 258.7(†98), 212.5(†58)
1164.72 22	†3.1 4	¹⁴² Xe(1.22 s)	571.83(†100), 657.05(†79), 538.24(†77)
1164.78 5	4.5 5	⁹⁸ Rh(8.7 m)	652.43(94), 745.36(5.3), 1817.0(4.7)
1164.8 5	1.3 3	¹²² Cs(4.5 m)	331.1(94), 497.1(79), 638.5(63)
1164.8 5	0.126 11	¹⁴⁶ Pr(24.15 m)	453.88(48.0), 1523.7(15.6), 735.72(7.5)
1164.80 20	0.13 3	¹⁶³ Yb(11.05 m)	860.28(10.1), 63.62(6.5), 123.21(1.98)
1164.9 6	0.68 25	¹⁰⁴ In(1.8 m)	658.0(100), 834.1(99), 878.1(29.4)
1164.9 5	0.89 9	¹²⁸ La(5.0 m)	284.00(87), 479.24(54), 643.65(14.7)
1164.94 8	0.38 3	¹⁴³ La(14.2 m)	620.3(2.34), 643.75(1.55), 621.4(1.52)
1164.94 10	0.159 20	²⁰² Bi(1.72 h)	960.67(99), 422.18(83.7), 657.49(60.6)
• 1164.96 9	0.029 5	¹¹⁰ Ag(249.79 d)	657.7622(94.0), 884.685(72.2), 937.493(34.13)
1165		⁸³ Y(7.08 m)	35.50(0.44), 882.1(6.30), 489.90(5.53)
1165.00 15	0.096	¹³⁷ I(24.5 s)	1218.00(12.8), 601.05(4.80), 1302.64(4.42)
1165.0 3	†2.0 4	¹⁸⁹ Hg(7.6 m)	320.99(†100), 78.21(†63), 565.42(†48)
1165.0 1	0.20 3	¹⁹¹ Au(3.18 h)	586.45(17), 277.88(7.2), 674.19(6.8)
1165.0 10	0.86 23	¹⁹¹ Hg(50.8 m)	252.5(57), 420.1(18.6), 578.6(17.6)
1165.11 5		¹⁶⁸ Lu(5.5 m)	1483.65(†100), 228.58(†97), 111.8(†68)
1165.11 5	1.1 3	¹⁶⁸ Lu(6.7 m)	198.82(28), 979.22(20), 896.12(15)
1165.2 6	0.41 16	¹⁶⁶ Lu(2.65 m)	228.12(77.3), 337.50(41), 367.95(31.4)
1165.2 1	0.65 3	²⁰⁰ Po(11.5 m)	671.0(34.0), 617.7(19.7), 434.4(9.3)
• 1165.21 11	0.171 12	¹⁶⁹ Lu(34.06 h)	960.622(23.4), 191.2137(20.6), 1449.74(9.92)
1165.30 13	>0.044	⁶⁹ As(15.2 m)	232.69(11), 145.95(4.96), 86.78(3.44)
1165.37 9	0.020 4	¹⁸³ Os(13.0 h)	381.768(89.6), 114.463(20.63), 167.844(8.81)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
1165.37 ¹⁶	0.39 ¹⁰	¹⁸⁶ Ir(2.0 h)	137.155(27), 767.508(21.2), 630.354(18.0)
1165.4 ⁵	0.017 ⁶	¹⁵¹ Tb(17.609 h)	287.357(28.3), 251.863(26.3), 108.088(24.3)
1165.46 ⁶	\dagger 164 ¹³	¹⁶⁴ Tm(2.0 m)	91.40(\dagger 1500), 1154.66(\dagger 366), 768.91(\dagger 279)
• 1165.5 ³	$>9.0 \times 10^{-5}$	⁹⁵ Tc(61 d)	204.117(63.25), 582.082(29.96), 835.149(26.63)
• 1165.5 ¹	0.182 ¹⁵	¹³¹ Te(30 h)	773.67(49.9), 852.21(27.0), 793.75(18.10)
1165.5	0.010 ⁴	¹⁵¹ Nd(12.44 m)	116.80(43.4), 255.68(16.4), 1180.89(14.8)
1165.5 ⁴	0.0031 ¹²	¹⁶⁷ Yb(17.5 m)	113.34(55.3), 106.18(22.5), 176.25(21)
1165.53 ¹⁰	0.247 ²⁰	¹⁶⁵ Yb(9.9 m)	80.11(49), 68.86(9.1), 1090.28(4.4)
• 1165.54 ⁵	0.081 ³	¹⁴⁸ Eu(54.5 d)	550.284(98.5), 629.987(71.9), 611.293(20.5)
1165.54 ⁹	0.056 ¹⁰	²⁰⁴ Bi(11.22 h)	899.15(98), 374.72(82), 984.02(59)
1165.56 ⁶	0.83 ³	⁹⁰ Kr(32.32 s)	1118.69(39.0), 121.82(35.5), 539.49(30.8)
1165.6 ⁴	0.75 ¹¹	⁹⁹ Pd(21.4 m)	136.00(73), 263.60(15.2), 673.38(6.9)
1165.6 ²	0.141 ²²	¹⁶³ Tm(1.810 h)	104.320(18.6), 69.229(11.6), 241.305(10.9)
1165.7 ⁶	0.010 ⁶	¹⁰¹ Pd(8.47 h)	296.29(19), 590.44(12.06), 269.67(6.43)
1165.7 ⁴	0.00042 ⁷	¹⁰⁷ Cd(6.50 h)	93.124(1.45), 828.93(0.17), 796.462(0.0665)
1165.739 ²⁷	15.8 ⁶	¹⁵⁰ Pm(2.68 h)	333.971(68), 1324.51(17.5), 831.92(11.9)
1165.739 ²⁷	0.257 ²⁴	¹⁵⁰ Eu(12.8 h)	333.971(4.0), 406.52(2.81), 921.17(0.210)
• 1165.739 ²⁷	0.106 ¹⁰	¹⁵⁰ Eu(35.8 y)	333.971(96), 439.401(80.4), 584.274(52.6)
1165.8 ⁵	0.35 ⁵	¹³⁹ Nd(5.50 h)	113.94(40), 737.96(35), 982.2(26.4)
1165.8 ³	\dagger 5.6 ¹⁷	¹⁵⁵ Nd(8.9 s)	180.574(\dagger 100), 418.99(\dagger 75), 955.08(\dagger 50)
1165.83 ²¹	0.22 ⁶	⁶⁶ Ge(2.26 h)	43.89(28.7), 381.85(28), 272.97(10.4)
1165.86 ³	25.7 ¹⁵	¹²³ Cd(1.82 s)	1027.45(22.6), 2102.81(12.5), 2601.98(12.0)
1165.87 ¹²	0.294 ¹⁷	¹⁴¹ Cs(24.94 s)	48.53(7.90), 561.63(4.7), 1194.02(3.95)
1165.9	0.07	¹⁸⁵ Ir(14.4 h)	254.4(13.3), 1828.8(10), 60.0(5.7)
1166.0 ⁵	0.08 ⁴	⁹⁶ Sr(1.07 s)	122.297(76.50), 809.401(71.9), 931.7(11.8)
1166.0 ⁵	0.82 ⁷	¹⁶⁴ Lu(3.14 m)	123.3(34.0), 740.52(12.2), 262.22(10.8)
1166.1 ³	0.41 ⁴	¹⁹⁰ Re(3.2 h)	186.718(27.8), 605.24(14.9), 557.972(14.3)
1166.2 ¹⁰	2.0 ⁴	¹⁶⁴ Tb(3.0 m)	168.838(25.4), 754.80(23.3), 215.07(21)
1166.22 ³	1.692 ¹⁶	¹⁵⁵ Dy(9.9 h)	226.918(68.4), 184.564(3.37), 1089.8(>2.8)
1166.25	0.031 ³	³⁹ Cl(55.6 m)	1267.185(54), 250.332(46.3), 1517.508(39.2)
1166.28 ⁸	0.194 ¹⁶	¹⁵³ Dy(6.4 h)	80.723(11.10), 213.754(10.90), 99.659(10.51)
1166.3 ⁵	0.051 ⁷	²⁴⁵ Pu(10.5 h)	327.428(25.4), 560.13(5.4), 308.222(4.9)
1166.5 ²	0.084 ²²	¹⁰⁹ Ru(34.5 s)	206.29(22.0), 225.98(19.6), 1929.05(13.7)
1166.5 ⁵	0.013 ⁸	¹⁵⁸ Eu(45.9 m)	944.09(25), 977.131(13.6), 79.5104(11)
1166.5 ²	\dagger 0.40 ⁷	¹⁵⁸ Ho(11.3 m)	218.21(\dagger 100.0), 98.91(\dagger 70), 945.7(\dagger 37)
• 1166.50 ⁵	0.068 ⁶	¹⁷² Lu(6.70 d)	1093.657(62.5), 900.724(29.8), 181.528(20.6)
1166.55 ³⁶	0.034 ⁸	¹⁷⁴ Ta(1.05 h)	206.50(58), 91.00(16.0), 1205.92(4.9)
1166.6 ⁴	0.64 ⁷	⁵¹ Sc(12.4 s)	1437.3(52), 2144.1(31.8), 1567.5(14.9)
1166.7 ⁵	0.7	¹⁴⁰ Sm(14.82 m)	225.5(>10), 225.4(10), 140.0(5.0)
• 1166.70 ¹⁶		²⁰⁶ Bi(6.243 d)	803.10(99), 881.01(66.2), 516.18(40.7)
1166.78 ⁴⁸	0.13 ⁴	¹³⁷ Nd(38.5 m)	75.5(17.0), 580.6(13), 306.60(10.0)
1166.8 ²	\dagger 10.4 ¹⁵	¹³¹ Ce(10.3 m)	169.42(\dagger 100), 414.25(\dagger 68), 119.18(\dagger 44)
• 1166.8	0.023	¹⁴⁶ Eu(4.59 d)	747.2(98), 633.03(43), 634.07(37)
1166.8 ⁶	0.13 ⁵	¹⁷⁷ W(135 m)	115.65(50), 426.98(13.2), 1036.4(10.3)
1166.9 ⁴	10 ²	¹³² Sb(4.10 m)	696.8(100), 973.9(100), 150.6(66)
1166.9 ²	3.84 ²²	¹⁵² Tb(4.2 m)	344.281(20.8), 411.115(18.8), 471.9(12.2)
1166.9 ²	0.087 ²³	¹⁷³ Ta(3.14 h)	172.2(18), 69.70(5.9), 90.3(5.0)
1166.9 ¹⁰	0.009 ⁴	²¹⁴ Bi(19.9 m)	609.312(44.8), 1764.494(15.36), 1120.287(14.80)
1167.0 ⁵	0.24 ⁴	⁸⁸ Nb(7.8 m)	1057.01(89.3), 1082.53(53.9), 399.41(45.7)
1167.0 ⁵	0.14 ⁷	⁹⁸ Rb(114 ms)	144.224(24.5), 1693.3(5.9), 2171.7(5.7)
1167.0 ⁵	0.8 ³	⁹⁸ Rb(96 ms)	144.224(73), 289.4(68), 3010.5(23.4)
1167	\dagger 1.8	¹⁰⁷ Sn(2.90 m)	1129.2(\dagger 100), 678.5(\dagger 100), 1540.6(\dagger 30)
1167	\dagger 0.15 ⁵	¹⁴⁸ Tb(60 m)	784.430(\dagger 119.0), 489.049(\dagger 28.0), 1079.025(\dagger 16.2)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
1167.01 ₂₅	0.183 ₂₄	²⁰⁴ Bi(11.22 h)	899.15(98), 374.72(82), 984.02(59)
1167.06 ₂	0.114 ₁₂	¹⁷⁸ Lu(28.4 m)	93.180(6.0), 1340.8(3.22), 1310.05(1.40)
1167.1 ₅	0.045 ₁₂	⁹³ Rb(5.84 s)	432.61(17.4), 986.05(6.8), 213.429(6.7)
1167.10 ₇	0.49 ₃	¹⁴⁹ Tb(4.118 h)	352.24(29.43), 164.98(26.4), 388.57(18.37)
1167.1 ₆	0.59 ₉	¹⁶¹ Yb(4.2 m)	78.20(34), 599.88(25.9), 631.45(13.9)
1167.1 ₁	4.5 ₃	²⁴⁰ Np(61.9 m)	566.34(25.3), 973.9(23.8), 600.57(18.4)
• 1167.109 ₁₃₀	0.10 ₄	²⁰⁰ Tl(26.1 h)	367.943(87), 1205.717(29.9), 579.298(13.8)
1167.2 ₂	0.40 ₈	¹⁰⁸ In(58.0 m)	875.46(100), 632.96(100), 242.84(41)
1167.2 ₂	0.217 ₂₅	¹⁴⁶ La(6.27 s)	258.47(64), 924.58(7.45), 702.28(6.43)
1167.25 ₃	0.0275 ₁₄	²⁵⁰ Bk(3.217 h)	989.12(45), 1031.85(35.6), 1028.65(4.91)
1167.25 ₃	2.94 ₂₀	²⁵⁰ Es(2.22 h)	989.12(13.3), 1031.85(10.6), 828.82(5.5)
1167.3 ₁	0.143 ₁₆	¹⁰⁷ Ru(3.75 m)	194.05(9.9), 847.93(5.3), 462.61(3.66)
1167.3 ₇	†8.9 ₁₆	¹⁵² Pr(3.24 s)	164.2(†100), 284.9(†81.0), 72.40(†38.9)
1167.38 ₁₂	0.046 ₁₁	¹⁵⁷ Eu(15.18 h)	63.929(23.0), 410.723(17.5), 370.509(11.0)
• 1167.396 ₁₅₀	0.0713 ₁₆	¹⁶⁸ Tm(93.1 d)	198.241(52.39), 815.990(48.99), 447.515(23.05)
1167.4 ₆	0.034 ₁₄	⁸⁹ Kr(3.15 m)	220.948(20.1), 586.03(16.6), 904.27(7.2)
1167.4 ₂	0.211 ₂₁	²⁰⁵ At(26.2 m)	719.30(31), 669.41(8.6), 628.88(5.6)
1167.4 ₂	0.0070 ₂₀	²⁴⁰ Np(7.22 m)	554.60(20.9), 597.40(11.7), 1496.9(1.33)
1167.5 ₃	23	⁵¹ Ca(10.0 s)	861.6(35), 1394.0(27), 1480.1(22)
1167.5 ₄	1.52 ₂₀	⁹⁷ Sr(426 ms)	1905.0(25), 953.8(21.4), 652.2(11.4)
1167.5 ₆	0.16	²⁰³ Bi(11.76 h)	820.3(30), 825.2(14.6), 896.9(13)
1167.51 ₅	0.046 ₅	¹⁸³ Os(13.0 h)	381.768(89.6), 114.463(20.63), 167.844(8.81)
1167.6 ₃	7	⁸⁷ Se(5.85 s)	242.5(37), 334.0(35), 573.2(19)
1167.6 ₅	1.07 ₁₃	¹⁵³ Ho(2.0 m)	295.8(67), 637.0(5.36), 688.5(3.7)
1167.7 ₃	5.0 ₅	¹⁶³ Gd(68 s)	287.79(25), 214.0(11.5), 1562.1(9.0)
1167.74 ₅	0.0249 ₁₅	²⁴⁶ Am(25.0 m)	1078.86(27.7), 798.80(25), 1062.04(17.1)
1167.8 ₁₀	0.26 ₉	¹²⁹ Sb(4.40 h)	812.8(43), 914.6(20.0), 544.7(17.9)
1167.8 ₄	0.13 ₄	¹⁷⁵ Tm(15.2 m)	514.868(65), 941.23(15), 363.942(12.7)
1167.9 ₂	0.114 ₁₀	¹⁴³ La(14.2 m)	620.3(2.34), 643.75(1.55), 621.4(1.52)
1167.9 ₅	0.12 ₄	¹⁶⁷ Lu(51.5 m)	29.66(14.4), 239.22(8.6), 213.19(3.6)
• 1167.938 ₂₆₁	0.805 ₂₆	¹³⁴ Cs(2.062 y)	604.699(97.56), 795.845(85.44), 569.315(15.43)
1167.938 ₂₆₀	0.077 ₅	¹³⁴ La(6.45 m)	604.699(5.05), 1554.934(0.414), 563.227(0.359)
1168.0 ₂	0.198 ₁₇	⁷⁹ Ga(2.847 s)	464.79(24.2), 516.41(21.5), 1187.28(12.8)
1168.0 ₁₅	†3.6 ₁₁	⁸⁷ Nb(2.6 m)	200.95(†100), 470.63(†73), 1066.8(†37)
1168.0 ₈	2.8 ₅	¹¹⁶ Cs(3.84 s)	393.5(<0.09), 524.3(76), 615.1(30.4)
1168 ₁	0.048 ₂₄	¹⁴¹ Xe(1.73 s)	909.23(24.0), 118.705(16.1), 105.937(9.8)
1168.0 ₈	†0.8 ₃	¹⁷¹ Hf(12.1 h)	122.0(†100), 662.2(†83), 347.18(†47)
1168	0.15	²²² Fr(14.2 m)	206.15(51), 111.12(12.5), 242.12(1.89)
1168.02 ₆	0.037 ₆	¹⁸⁹ Pt(10.87 h)	721.41(9.3), 94.33(7.6), 568.84(7.1)
1168.1 ₂	1.61 ₁₃	¹²⁸ La(5.0 m)	284.00(87), 479.24(54), 643.65(14.7)
1168.1 ₃	0.69 ₁₁	¹³⁹ Sm(2.57 m)	273.7(37), 306.7(28.5), 596.3(8.0)
1168.16 ₁₉	0.0061 ₁₅	¹⁵² Eu(9.274 h)	841.586(14.6), 963.37(12.01), 121.7824(7.21)
• 1168.25 ₂₅	0.10 ₃	¹⁰⁶ Ag(8.28 d)	511.842(88), 1045.83(29.6), 717.24(28.9)
1168.3 ₅	0.07 ₃	¹⁵⁹ Tm(9.13 m)	38.35(5.8), 84.8(5.8), 271.30(5.1)
1168.3 ₃	0.60 ₁₀	¹⁸⁴ Au(53.0 s)	162.97(50), 272.98(40), 362.47(17.5)
1168.4 ₃	†32.8 ₁₆	³² Ar(98 ms)	707.4(†12.1), 461.09(†12.1), 1078.5(†12.0)
1168.4 ₅	0.00184 ₁₅	¹⁷¹ Er(7.516 h)	308.31(64.4), 295.901(28.9), 111.621(20.5)
1168.4 ₃	0.0014 ₄	¹⁷⁹ Lu(4.59 h)	214.335(11.3), 214.930(0.46), 123.3790(0.45)
1168.43 ₁₃	0.00036 ₃	⁸² Br(6.13 m)	776.517(0.26), 698.374(0.0340), 1474.88(0.0198)
1168.43 ₁₃	0.0012 ₅	⁸² Rb(1.273 m)	776.517(13), 1395.139(0.471), 698.374(0.133)
1168.5 ₅	0.35	⁴⁵ Ar(21.48 s)	1020.04(34.0), 3703.2(33.3), 61.35(25.0)
1168.6 ₂	0.011 ₄	⁹³ Y(10.18 h)	266.9(7.3), 947.1(2.09), 1917.8(1.55)
1168.6 ₁₀	0.12 ₆	¹⁴⁰ Xe(13.60 s)	805.52(20), 1413.66(12.2), 1315.05(8.2)
1168.6	†40 ₃	²⁰² Po(44.7 m)	688.6(†1000), 316.0(†286), 165.7(†174)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
1168.63 8	0.022 4	¹³⁴ La(6.45 m)	604.699(5.05), 1554.934(0.414), 563.227(0.359)
1168.7 2	0.43 4	¹⁵⁰ Tb(3.48 h)	638.05(72), 496.3(14.8), 792.5(4.39)
1168.76 14	0.18 4	¹³³ Ce(4.9 h)	477.22(39), 510.36(20.7), 58.39(19.2)
1168.8 6	†1.10 14	¹²⁰ I(81.0 m)	560.44(†137), 1523.0(†21.1), 640.85(†17.1)
1168.80 5	40 4	¹²⁸ In(0.84 s)	935.20(6.5), 1089.53(6.0), 2104.07(5.3)
1168.80 5	100 5	¹²⁸ In(0.72 s)	831.54(100), 120.54(11.1), 321.22(10.5)
1168.8 2	>4.6×10 ⁻⁵	¹²⁹ Te(69.6 m)	27.81(16.3), 459.60(7.70), 487.39(1.42)
1168.8 4	0.077 14	¹⁸⁷ Au(8.4 m)	1331.81(7.0), 1408.23(3.06), 914.73(3.02)
1168.8 10	0.155 23	²²⁶ Fr(48 s)	253.73(22.3), 186.05(16.3), 253.9(2.5)
1168.830 2017.8 4		⁹⁸ Nb(51.3 m)	787.374(93), 722.645(73.8), 833.563(10.8)
1168.97 5	0.43 6	¹⁶³ Tm(1.810 h)	104.320(18.6), 69.229(11.6), 241.305(10.9)
1168.99 17	0.235 17	¹⁰¹ Mo(14.61 m)	191.92(19), 590.91(16.4), 1012.47(12.8)
1169.04 4	0.881 23	¹³⁵ I(6.57 h)	1260.409(28.90), 1131.511(22.74), 1678.027(9.62)
1169.07	0.034 7	³⁷ S(5.05 m)	3103.36(94), 3741.02(0.26), 3086.00(0.062)
1169.09 8	0.113 9	¹⁰⁵ Cd(55.5 m)	961.84(4.69), 346.870(4.20), 1302.459(3.98)
• 1169.09 7	0.266 5	¹⁵⁶ Eu(15.19 d)	811.79(9.70), 88.9667(8.4), 1230.68(7.98)
• 1169.09 7	0.081 9	¹⁵⁶ Tb(5.35 d)	534.318(66.6), 199.2132(40.9), 1222.36(31.00)
1169.2 5	0.252 15	¹⁵¹ Nd(12.44 m)	116.80(43.4), 255.68(16.4), 1180.89(14.8)
1169.3 3	†0.78 8	²⁷ Na(301 ms)	984.64(†114), 1697.94(†15.5), 3109.2(†>3.4)
1169.34 8	†0.77 8	¹⁵⁸ Ho(11.3 m)	218.21(†100.0), 98.91(†70), 945.7(†37)
1169.4 10	1.1 4	¹⁶⁴ Tb(3.0 m)	168.838(25.4), 754.80(23.3), 215.07(21)
1169.4 10	1.3 4	¹⁶⁴ Tb(3.0 m)	168.838(25.4), 754.80(23.3), 215.07(21)
• 1169.49 6	0.0053 5	¹⁷¹ Lu(8.24 d)	739.78(47.8), 19.394(13.7), 667.404(11.04)
1169.5 4	0.12 3	⁷⁸ As(90.7 m)	613.725(54), 694.916(16.7), 1308.59(13.0)
1169.5 3	0.57 9	¹⁴⁹ Dy(4.20 m)	100.8(15.2), 789.4(11.8), 1776.3(11.1)
1169.5 5	0.8 4	¹⁷⁸ Re(13.2 m)	237.3(45), 105.9(23.0), 939.1(8.9)
1169.6 3	0.0077 16	⁶³ Zn(38.47 m)	669.62(8), 962.06(6.5), 1412.08(0.75)
1169.6 5	1.75 20	¹⁰¹ Sr(118 ms)	128.34(18.0), 1124.82(10.9), 510.73(8.5)
1169.7 6	0.276 20	¹¹⁴ Sb(3.49 m)	1299.90(99), 887.60(17.4), 327.18(7.0)
1169.8 3	0.94 8	⁶⁸ As(151.6 s)	1015.96(78), 761.61(33.8), 651.12(32.1)
1169.8 5	100000	¹²³ In(47.8 s)	125.76(†4.2×10 ⁷), 3234(†130000), 3127(†100000)
1169.83 19	0.062 11	¹³² La(4.8 h)	464.55(76), 567.14(15.7), 1909.91(9.0)
1169.9 3	†4.7×10 ⁻²	¹⁵⁷ Ho(12.6 m)	279.97(†47600), 341.16(†37000), 193.41(†15200)
1170.0 6	0.039 10	⁸⁵ Y(4.86 h)	231.67(22.8), 2123.8(5.0), 767.40(3.6)
1170.0 8	0.048 13	¹¹¹ Sn(35.3 m)	1152.98(2.7), 1914.70(1.99), 761.97(1.48)
1170.0 3	†9.6 24	¹⁵⁵ Nd(8.9 s)	180.574(†100), 418.99(†75), 955.08(†50)
1170.1 2	0.042 7	⁷⁹ Rb(22.9 m)	688.1(23), 182.77(19.2), 143.41(13.9)
• 1170.1 4	0.099 8	¹⁴⁷ Gd(38.06 h)	229.32(63), 396.00(34.3), 929.01(20.2)
1170.1 3	0.73 11	¹⁴⁹ Dy(4.20 m)	100.8(15.2), 789.4(11.8), 1776.3(11.1)
1170.2 4	0.09 3	¹⁰⁹ Sn(18.0 m)	1099.4(30), 649.90(28.0), 1321.3(11.9)
1170.2 5	0.46 9	¹⁴⁴ La(40.8 s)	397.440(94.3), 541.20(39.2), 844.8(22.3)
1170.3 5	0.32 5	⁸⁵ Zr(7.86 m)	454.20(45), 416.3(27.0), 1198.4(4.8)
1170.3 1	0.044 3	¹²¹ I(2.12 h)	212.189(84), 532.08(6.07), 598.74(1.47)
1170.4 2	†3	¹³⁹ I(2.29 s)	527.7(†100), 571.2(†98), 536.6(†67)
1170.4 4	†>4.5	¹⁶⁴ Tm(2.0 m)	91.40(†1500), 1154.66(†366), 768.91(†279)
1170.49 9	†2.63 19	¹⁸⁸ Au(8.84 m)	265.63(†100), 340.04(†23.9), 605.5(†16.3)
1170.5 4	2.1 3	¹⁸⁸ Tl(71 s)	412.7(88), 592.0(61), 504.2(23.3)
• 1170.53 11	0.00159 23	¹³¹ Ba(11.50 d)	496.326(47), 123.805(28.97), 216.078(19.66)
1170.587 241.06 12		¹⁵⁰ Pm(2.68 h)	333.971(68), 1324.51(17.5), 1165.739(15.8)
• 1170.587 241.334 19		¹⁵⁰ Eu(35.8 y)	333.971(96), 439.401(80.4), 584.274(52.6)
1170.6 13	0.19 5	¹¹² Sb(51.4 s)	1257.05(96), 990.70(14.3), 670.0(3.7)
1170.6 1	3.09 9	²⁰⁹ At(5.41 h)	545.0(91), 781.9(83.5), 790.2(63.5)
1170.7 4	0.16 4	¹²¹ Xe(40.1 m)	252.7(13), 132.8(10.9), 445.2(7.7)
1170.7 2	0.059 7	¹³⁷ Pr(1.28 h)	836.7(1.8), 433.9(1.28), 514.0(1.08)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
1170.7 5	0.037 6	¹⁵¹ Tb(17.609 h)	287.357(28.3), 251.863(26.3), 108.088(24.3)
1170.70 9	0.31 3	¹⁹⁹ Pb(90 m)	366.90(44.2), 353.39(9.5), 1135.04(7.8)
1170.71 10	0.65 13	¹¹⁷ Cd(3.36 h)	1997.33(26), 1065.98(23.1), 564.397(14.7)
1170.73 5	0.0578 13	¹²⁷ Cs(6.25 h)	411.95(62.8), 124.70(11.37), 462.31(5.07)
1170.82 15	0.75 8	¹⁶² Tm(21.70 m)	102.00(17.5), 798.68(8.4), 227.52(7)
1170.83 5	\pm 5.03 18	¹⁶² Lu(1.37 m)	166.82(\pm 100), 631.87(\pm 26.6), 798.76(\pm 16.9)
1170.9 5	0.04 3	¹⁴⁹ Dy(4.20 m)	100.8(15.2), 789.4(11.8), 1776.3(11.1)
1170.9 3	0.54 5	¹⁷⁷ W(135 m)	115.65(50), 426.98(13.2), 1036.4(10.3)
1170.94 15	2.28 19	¹²¹ Ag(0.78 s)	314.55(32.1), 353.43(19.9), 500.61(9.3)
• 1170.97 8	0.0357 13	¹⁵² Eu(13.542 y)	121.7824(28.4), 1408.011(20.87), 964.131(14.34)
1170.98 3	0.591 20	¹⁵¹ Tb(17.609 h)	287.357(28.3), 251.863(26.3), 108.088(24.3)
1171 1	>0.35	¹³⁷ Pm(2.4 m)	177.5(40.29), 108.6(35), 233.6(29.57)
1171.0 1	9.4 9	¹⁴⁹ Er(8.9 s)	171.5(6.5), 343.9(6.3), 1530.9(4.4)
1171 1	0.16 12	¹⁶² Tm(21.70 m)	102.00(17.5), 798.68(8.4), 227.52(7)
1171.0 10	0.40 3	²²⁸ Fr(39 s)	473.7(10.2), 474.0(7.6), 410.40(6.3)
• 1171	>0.0048	²³² Pa(1.31 d)	969.315(41.6), 894.351(19.8), 150.059(10.8)
1171.04 8	0.70 4	²⁰⁵ At(26.2 m)	719.30(31), 669.41(8.6), 628.88(5.6)
1171.06 15	0.61 6	¹⁴⁸ Pr(2.27 m)	301.702(61), 1357.78(5.5), 1023.18(4.8)
1171.08 6	1.5 3	¹⁸⁶ Ir(16.64 h)	296.911(64.0), 137.155(42), 434.849(34.4)
1171.1 1	3.73 16	¹³⁰ La(8.7 m)	357.4(81.0), 550.7(25.9), 908.0(17.0)
1171.1 4	\pm 0.46 7	¹⁹² Tl(9.6 m)	422.8(\pm 100), 634.8(\pm 75.9), 786.3(\pm 31.7)
1171.2 10	0.10 6	¹⁴⁰ Xe(13.60 s)	805.52(20), 1413.66(12.2), 1315.05(8.2)
1171.2 3		¹⁴⁶ Dy(29 s)	2156.8, 1915.7, 1876.7
• 1171.20 4	0.80 3	¹⁶⁹ Lu(34.06 h)	960.622(23.4), 191.2137(20.6), 1449.74(9.92)
• 1171.24 14	0.0037 10	¹⁵⁴ Eu(8.593 y)	123.071(40.79), 1274.436(35.19), 723.304(20.22)
1171.28 4	0.081 20	¹⁷⁹ Re(19.5 m)	430.221(28), 289.968(26.9), 1680.244(13.0)
1171.3 5	1.5	⁶⁷ As(42.5 s)	122.7(19.2), 120.8(9.3), 243.6(7.8)
1171.3 2	19	¹²⁰ In(3.08 s)	2039.8(1.86), 703.8(1.42), 2390.2(1.14)
1171.3 2	100 3	¹²⁰ In(47.3 s)	1023.1(97.4), 197.3(80.6), 89.9(77.6)
1171.3 2	96 10	¹²⁰ In(46.2 s)	1023.1(55), 863.7(32.5), 1294.5(12.2)
1171.3 2	1.7	¹²⁰ Sb(15.89 m)	703.8(0.149), 988.6(0.063)
• 1171.3 2	100	¹²⁰ Sb(5.76 d)	1023.1(99.4), 197.3(87.0), 89.9(79.5)
1171.3 1	0.090 10	²³⁴ Pa(6.70 h)	131.30(18), 946.00(13.4), 883.24(9.6)
• 1171.31 11	0.025 6	¹⁷² Lu(6.70 d)	1093.657(62.5), 900.724(29.8), 181.528(20.6)
1171.34 5	0.081 20	¹⁷⁹ Re(19.5 m)	430.221(28), 289.968(26.9), 1680.244(13.0)
1171.4 5	0.00030 12	¹⁶¹ Gd(3.66 m)	360.94(0.59), 314.92(22.7), 102.315(13.9)
1171.42 3	0.196 8	¹³⁵ Ce(17.7 h)	265.56(41.8), 300.07(23.5), 606.76(18.8)
1171.5 5	2.1 9	⁸⁰ Zn(0.545 s)	712.53(45.1), 715.40(33.8), 964.93(15.6)
1171.5 4	0.146 6	¹³⁹ Xe(39.68 s)	218.59(56), 296.53(21.7), 174.97(11.3)
1171.55 11	0.88 6	¹⁴¹ Cs(24.94 s)	48.53(7.90), 561.63(4.7), 1194.02(3.95)
1171.6 20	0.04 3	¹⁴⁰ Cs(63.7 s)	602.345(71.1), 908.25(11.6), 1200.25(6.39)
1171.6 6	\pm >0.7	¹⁶⁰ Ho(5.02 h)	728.18(\pm 100), 879.383(\pm 65.9), 962.317(\pm 59.1)
1171.6 3	0.385 21	¹⁸⁷ Au(8.4 m)	1331.81(7.0), 1408.23(3.06), 914.73(3.02)
1171.62 4	1.24 8	²⁰⁷ At(1.80 h)	814.41(44.5), 588.33(19.2), 300.654(12.8)
1171.7 3	0.35 3	¹¹⁸ I(13.7 m)	605.71(86.0), 545.12(10.9), 600.71(10.2)
1171.7 5	0.075 15	¹⁴³ Ba(14.33 s)	211.475(25), 798.79(15.6), 980.45(11.55)
1171.7 10	0.134 20	²²⁶ Fr(48 s)	253.73(22.3), 186.05(16.3), 253.9(2.5)
1171.8 3	3.7 5	⁹⁷ Pd(3.10 m)	265.26(56), 475.2(26.7), 792.70(13.8)
1171.8 3	0.41 4	¹⁶¹ Er(3.21 h)	826.6(3.0), 211.15(12.2), 592.6(3.7)
1171.8 4	0.44 12	¹⁷⁵ Ta(10.5 h)	207.4(14.0), 348.5(12.0), 266.9(10.8)
1171.9 7	\pm 1.1 3	¹⁵² Tb(17.5 h)	344.281(\pm 1500), 586.294(\pm 223), 271.135(\pm 203)
1171.94 16	\pm 4.8 5	¹⁸⁹ Hg(7.6 m)	320.99(\pm 100), 78.21(\pm 63), 565.42(\pm 48)
1171.97 10	0.0039 8	¹⁴⁹ Nd(1.728 h)	211.309(25.9), 114.314(19.2), 270.166(10.7)
1172.0 6	\pm 1.0 5	¹³² Pr(1.6 m)	325.5(\pm 100), 496.9(\pm 25), 822.4(\pm 17.3)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
1172.0 3	0.066 7	¹⁴³ La(14.2 m)	620.3(2.34), 643.75(1.55), 621.4(1.52)
1172.0 10	0.02 1	¹⁶³ Yb(11.05 m)	860.28(10.1), 63.62(6.5), 123.21(1.98)
1172 1	0.25 11	¹⁶⁴ Tb(3.0 m)	168.838(25.4), 754.80(23.3), 215.07(21)
1172.00 10	1.6 4	²⁰⁴ Au(39.8 s)	436.551(91), 1511.10(25.2), 691.80(24.0)
1172.0 4		²⁰⁷ Rn(9.25 m)	344.53(46), 747.15(14.2), 402.68(11.9)
1172.0 3	0.15 3	²⁴² Np(2.2 m)	735.93(5), 780.44(2.76), 1473.1(2.34)
1172.05 10	0.59 4	¹³³ Ce(4.9 h)	477.22(39), 510.36(20.7), 58.39(19.2)
1172.1 7	1.1 4	¹³⁵ Nd(12.4 m)	204.02(52), 41.43(23), 441.2(14.9)
1172.2 10	0.10 3	⁹⁹ Rh(4.7 h)	340.71(70), 617.8(12.0), 1261.2(11)
1172.2 1	5.3 18	¹⁴¹ Gd(24.5 s)	351.1(89), 223.9(64), 574.9(51)
1172.2 2	†186 52	¹⁵⁷ Ho(12.6 m)	279.97(†47600), 341.16(†37000), 193.41(†15200)
1172.3 3	0.16 3	¹⁰⁷ In(32.4 m)	204.97(47), 505.51(11.9), 320.92(10.2)
1172.3	1.6	¹²⁵ Cd(0.65 s)	436.29(37), 1099.48(22.3), 2147.19(19.1)
1172.3 5	0.19 7	¹⁸¹ Re(19.9 h)	365.57(56), 360.70(20), 639.30(6.4)
1172.33 20	0.98 8	⁸⁹ Kr(3.15 m)	220.948(20.1), 586.03(16.6), 904.27(7.2)
1172.38 10	1.24 11	¹⁹⁵ Hg(9.9 h)	779.80(7), 61.46(6.2), 585.13(1.99)
1172.4 3	8	¹²⁸ Cd(0.34 s)	247.92(75), 857.05(71), 68.02(29)
1172.5 7	0.264 22	¹⁹⁹ Bi(27 m)	560.1(22.0), 424.85(22), 841.7(11)
1172.53 13	0.118 9	¹⁵¹ Nd(12.44 m)	116.80(43.4), 255.68(16.4), 1180.89(14.8)
1172.58 20	0.0076 19	¹⁰⁵ Ru(4.44 h)	724.21(47), 469.37(17.5), 676.36(15.7)
1172.59 12	0.049 8	¹⁵⁵ Dy(9.9 h)	226.918(68.4), 184.564(3.37), 1089.8(>2.8)
1172.7 3	0.8	⁴⁵ Ar(21.48 s)	1020.04(34.0), 3703.2(33.3), 61.35(25.0)
1172.7 1	†>0.7	¹⁶⁰ Ho(5.02 h)	728.18(†100), 879.383(†65.9), 962.317(†59.1)
1172.7 5	0.036 12	¹⁶⁵ Yb(9.9 m)	80.11(49), 68.86(9.1), 1090.28(4.4)
1172.75 4	0.050 19	²¹⁴ Bi(19.9 m)	609.312(44.8), 1764.494(15.36), 1120.287(14.80)
1172.78 6	0.85 5	¹⁴⁶ La(6.27 s)	258.47(64), 924.58(7.45), 702.28(6.43)
1172.8 3	0.13 5	¹²⁹ In(0.61 s)	2118.0(45), 1865.0(32), 769.3(9.1)
1172.8 4	0.48 6	¹⁷² Ta(36.8 m)	214.02(46), 95.23(17.5), 1109.27(12.4)
1172.80 5	0.24 7	¹⁸⁴ Ta(8.7 h)	414.03(72), 252.848(43), 920.932(32.0)
• 1172.81 12	0.0040 5	¹⁴⁷ Eu(24.1 d)	197.299(27), 121.220(22.9), 677.516(9.8)
1172.87	2.5 3	¹¹⁶ Ag(2.68 m)	513.39(76), 2478.5(12), 699.58(11)
1172.9 1	84	⁶² Co(1.50 m)	2301.8(14.7), 1128.9(11.1), 1985.13(1.6)
1172.9 1	97	⁶² Co(13.91 m)	1163.4(67.3), 2003.48(18.4), 1718.6(6.7)
1172.9 1	0.34	⁶² Cu(9.74 m)	875.68(0.150), 2301.8(0.0414), 1128.9(0.0324)
1172.9 6	0.050 10	⁸⁵ Y(4.86 h)	231.67(22.8), 2123.8(5.0), 767.40(3.6)
1172.9 2	1.09 7	¹³² I(2.295 h)	667.718(99), 772.60(75.6), 954.55(17.6)
1172.90 10	0.71 6	¹⁵⁸ Tm(3.98 m)	192.13(62), 335.10(16.8), 1149.83(7.6)
1172.9 5	0.0008 3	¹⁷¹ Er(7.516 h)	308.31(64.4), 295.901(28.9), 111.621(20.5)
1173.0	0.35 23	¹⁴⁸ Ba(0.607 s)	56.08(29.20), 133.53(3.88), 415.78(3.59)
1173.0 10	†2.2 7	¹⁹¹ Tl(5.22 m)	452.6(†100), 470.1(†98), 391.6(†96)
1173.0 1	1.09 7	²⁰⁰ Po(11.5 m)	671.0(34.0), 617.7(19.7), 434.4(9.3)
1173 2	†0.6	²⁴⁴ Bk(4.35 h)	891.5(†100), 217.6(†88), 921.5(†19)
1173.1	0.175 14	¹⁴¹ Ba(18.27 m)	190.328(46.0), 304.194(25.4), 276.948(23.4)
1173.1 1	0.045 7	²³⁴ Pa(6.70 h)	131.30(18), 946.00(13.4), 883.24(9.6)
1173.12 8	0.120 14	¹³² La(4.8 h)	464.55(76), 567.14(15.7), 1909.91(9.0)
1173.16 3	25.1 15	¹²⁵ Cd(0.57 s)	1027.53(25.8), 736.65(12.6), 2392.43(9.4)
1173.18 7	0.88 7	¹⁴³ Sm(8.83 m)	1056.58(4), 1514.98(1.39), 1403.06(0.74)
1173.2 2	1.78 15	¹⁵⁴ Ho(11.76 m)	334.6(84), 412.4(15.0), 873.4(12.5)
• 1173.2 4	0.031 13	¹⁷⁰ Lu(2.00 d)	84.2551(4.256), 1280.25(3.450), 2041.88(1.434)
• 1173.237 4	99.90 2	⁶⁰ Co(5.2714 y)	1332.501(99.9820), 346.93(0.0076), 826.06(0.0076)
1173.237 4	0.26 9	⁶⁰ Cu(23.7 m)	1332.501(88), 1791.6(45.4), 826.06(21.7)
• 1173.24 22	0.011 3	¹⁵³ Tb(2.34 d)	212.038(31.0), 170.504(6.8), 109.758(6.4)
1173.26 19	0.35 10	¹⁸⁴ Au(53.0 s)	162.97(50), 272.98(40), 362.47(17.5)
1173.3 5	0.0019 8	⁹⁶ Tc(51.5 m)	778.224(1.9), 1200.231(1.08), 480.705(0.311)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
1173.3 2	1.31 18	¹¹⁹ Ag(2.1 s)	626.4(13), 366.2(12.1), 399.1(10.9)
• 1173.30 5	0.181 7	¹²⁵ Sn(9.64 d)	1067.10(10), 1089.15(4.59), 822.48(4.28)
1173.3 3	0.29 5	¹⁴⁰ Sm(14.82 m)	225.5(>10), 225.4(10), 140.0(5.0)
1173.34 19	0.43	¹⁵⁶ Tm(83.8 s)	344.55(86), 452.85(17.2), 585.93(14.6)
1173.4	5.0×10^{-6}	⁸² Br(6.13 m)	776.517(0.26), 698.374(0.0340), 1474.88(0.0198)
1173.5 5	0.21 5	⁸⁸ Nb(7.8 m)	1057.01(89.3), 1082.53(53.9), 399.41(45.7)
1173.5 3	0.02	¹⁵⁴ Pm(1.73 m)	2057.76(17.1), 1393.9(14.4), 81.99(12.6)
1173.5 3	0.88	¹⁵⁴ Pm(2.68 m)	184.810(32), 81.99(15.4), 546.66(14.5)
1173.5 9	0.22 4	¹⁶⁷ Lu(51.5 m)	29.66(14.4), 239.22(8.6), 213.19(3.6)
1173.5 3	0.035 4	¹⁹² Au(4.94 h)	316.50791(58.0), 295.95827(22.3), 2236.89(5.6)
1173.59 5	1.37 5	¹¹⁸ In(4.45 m)	1229.68(96), 1050.69(81.0), 683.08(54.3)
1173.59 5	0.43 9	¹¹⁸ In(5.0 s)	1229.68(5.0), 528.83(0.7), 813.22(0.19)
1173.59 5	0.047 5	¹¹⁸ Sb(3.6 m)	1229.68(2.5), 1267.23(0.511), 528.83(0.472)
1173.6 2	†13 2	¹⁹⁵ Bi(183 s)	807.6(†100), 831.7(†100), 776.2(†95)
1173.62 17	0.15 5	²⁰² Bi(1.72 h)	960.67(99), 422.18(83.7), 657.49(60.6)
1173.66 10	0.23 3	²²⁴ Fr(3.30 m)	215.985(33.1), 131.613(16.3), 836.90(9.8)
1173.7 2		¹⁰⁶ In(6.2 m)	632.66(100), 861.16(92), 997.87(48)
1173.7 2		¹⁰⁶ In(5.2 m)	632.66(92), 1714.90(17.1), 861.16(10.6)
1173.75 25	0.62 6	⁹⁵ Y(10.3 m)	954.00(16), 2175.6(7.00), 3576.0(6.4)
1173.779 104.8 4		¹⁸⁴ Ta(8.7 h)	414.03(72), 252.848(43), 920.932(32.0)
• 1173.779 101.21 6		¹⁸⁴ Re(169 d)	252.848(10.7), 216.548(9.43), 920.932(8.14)
1173.8 10	5.1 25	¹⁶⁶ Ta(34.4 s)	158.5(53), 311.8(28.2), 810.1(9.8)
1173.89 9	0.00076 14	¹³⁵ La(19.5 h)	480.51(1.5), 874.51(0.164), 587.83(0.1108)
1173.9 2	8.94 21	¹⁰¹ Ag(11.1 m)	261.0(53), 588.0(10.0), 667.3(9.8)
1173.92 3	0.184 13	¹³⁵ Ce(17.7 h)	265.56(41.8), 300.07(23.5), 606.76(18.8)
1173.99 18	0.19 7	¹⁸³ Os(9.9 h)	1101.94(49.0), 1107.92(22.36), 1034.85(6.02)
• 1174.0 4	0.018 8	⁸² Br(35.30 h)	776.517(83.5), 554.348(70.8), 619.106(43.4)
1174.0	†4.4	¹⁰⁷ Sn(2.90 m)	1129.2(†100), 678.5(†100), 1540.6(†30)
1174.0	†1.6	¹³¹ Ce(10.3 m)	169.42(†100), 414.25(†68), 119.18(†44)
1174.0 5	0.39 11	¹³³ Te(55.4 m)	912.671(55.28), 647.51(19.4), 863.955(15.6)
1174.0 7	0.22 9	¹⁷⁵ Ta(10.5 h)	207.4(14.0), 348.5(12.0), 266.9(10.8)
1174.0 4	0.136 17	¹⁹¹ Au(3.18 h)	586.45(17), 277.88(7.2), 674.19(6.8)
1174.00 17	2.0 6	¹⁹³ Hg(11.8 h)	257.97(61), 407.63(25), 573.25(14.2)
1174.04 3	0.045 5	⁹⁶ Y(5.34 s)	1750.42(2.350), 2225.93(0.322), 475.33(0.188)
• 1174.08 15	0.0405 21	⁸³ Sr(32.41 h)	762.65(30), 381.53(14.1), 418.37(4.41)
1174.1 5	0.10 3	⁹¹ Rb(58.4 s)	93.628(33.7), 2564.19(12.5), 3599.67(10.4)
1174.1 3	0.69 10	¹²¹ Cd(8.3 s)	2059.41(21.0), 1020.89(18.9), 987.81(13.6)
1174.1 3	1.1 5	¹²⁹ Sn(6.9 m)	1161.31(56.0), 1128.44(50), 760.8(16.8)
1174.1 3	0.15 4	¹³³ Ce(4.9 h)	477.22(39), 510.36(20.7), 58.39(19.2)
1174.17 10	0.21	¹⁷⁶ Ta(8.09 h)	1159.28(25), 88.34(12), 1224.93(6)
1174.2 2	3.0 3	⁷⁶ Rb(39.1 s)	2571.3(47), 424.0(43.4), 355.6(8.2)
1174.2 5	†9.4 10	¹⁰³ Mo(67.5 s)	83.4(†100), 423.91(†69), 45.8(†57)
1174.2 5	1.31 7	²²⁸ Fr(39 s)	473.7(10.2), 474.0(7.6), 410.40(6.3)
1174.2 10	†1.90 × 10 ³	²³¹ Pa(1.17 m)	1001.03(†837000), 766.38(†294000), 742.81(†80000)
1174.22 25	0.0013 3	¹³⁰ I(9.0 m)	536.09(16), 586.05(1.07), 1614.10(0.447)
• 1174.22 8	0.169 9	¹⁵⁶ Tb(5.35 d)	534.318(66.6), 199.2132(40.9), 1222.36(31.00)
1174.3 9	2.6 13	⁷⁸ Zn(1.47 s)	224.75(43.9), 181.68(28.1), 860.30(24.5)
1174.32 10	0.31 4	¹²⁶ In(1.60 s)	1141.11(55.9), 3344.61(21.6), 969.61(14.9)
1174.4 3	1.15 9	¹⁰¹ Sr(118 ms)	128.34(18.0), 1124.82(10.9), 510.73(8.5)
1174.5 3	0.26 4	¹⁴⁶ Ba(2.22 s)	140.7(20.2), 251.2(19.6), 121.2(14.2)
1174.5 15	0.0015 4	¹⁵⁵ Sm(22.3 m)	104.3346(74.6), 245.771(3.7), 141.4428(1.98)
1174.5 4	0.14 5	¹⁵⁹ Tm(9.13 m)	38.35(5.8), 84.8(5.8), 271.30(5.1)
1174.5	0.11	²⁰⁵ At(26.2 m)	719.30(31), 669.41(8.6), 628.88(5.6)
1174.5 5	0.042 8	²³⁸ Am(98 m)	962.77(28), 918.69(23.0), 561.11(10.9)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
1174.56 4	0.0185 7	¹⁸⁸ Re(16.98 h)	155.032(14.9), 632.99(1.25), 477.99(1.0)
• 1174.56 4	1.32 13	¹⁸⁸ Ir(41.5 h)	155.032(29.7), 2214.62(18.7), 632.99(18)
• 1174.59 10		¹⁸⁸ Ir(41.5 h)	155.032(29.7), 2214.62(18.7), 632.99(18)
1174.6 2	†1.5 2	⁷⁵ Ga(126 s)	253.0(†100), 574.8(†31.6), 885.6(†11.1)
1174.6 3	0.47 6	¹⁵⁶ Ho(56 m)	266.35(54.7), 137.83(51), 366.25(10.73)
1174.6 3	0.6	¹⁶¹ Er(3.21 h)	826.6(3.0), 211.15(12.2), 592.6(3.7)
1174.60 8	0.46 4	²⁰⁷ At(1.80 h)	814.41(44.5), 588.33(19.2), 300.654(12.8)
1174.66 3	0.035 4	¹⁷⁸ Lu(28.4 m)	93.180(6.0), 1340.8(3.22), 1310.05(1.40)
1174.66 3	0.0158 8	¹⁷⁸ Ta(9.31 m)	93.180(1.78), 1350.68(1.18), 1340.8(1.027)
1174.7 5	0.44 5	⁸⁸ Nb(14.5 m)	1082.53(103), 1057.01(100), 671.20(64)
1174.7 3	0.174 15	¹³⁹ Pm(4.15 m)	402.8(15), 463.1(4.1), 367.8(3.52)
1174.7 2	†2.0 1	²⁰³ At(7.4 m)	639.4(†100), 641.5(†55.8), 738.1(†38.4)
1174.74 17	0.120 20	⁶⁶ Ge(2.26 h)	43.89(28.7), 381.85(28), 272.97(10.4)
1174.8 2	0.92 10	¹⁴⁹ Dy(4.20 m)	100.8(15.2), 789.4(11.8), 1776.3(11.1)
1174.8 1	†0.77 9	¹⁶⁰ Ho(5.02 h)	728.18(†100), 879.383(†65.9), 962.317(†59.1)
1174.80 13	4.4 4	¹⁶⁶ Lu(2.65 m)	228.12(77.3), 337.50(41), 367.95(31.4)
1174.9 5	4.6 9	⁹⁸ Y(2.0 s)	1223.0(80), 620.505(63), 647.58(53)
1174.9 1	0.038 10	¹⁵¹ Nd(12.44 m)	116.80(43.4), 255.68(16.4), 1180.89(14.8)
1175.00 20	1.23 7	⁹⁹ Ag(124 s)	264.41(65), 832.29(13.5), 805.07(12.5)
1175.0 8	0.23 10	¹⁵⁴ Tb(21.5 h)	123.071(26), 1274.436(10.5), 2187.10(9.9)
1175.0 10	0.36 7	²⁰¹ Bi(108 m)	629.1(24.0), 936.2(11.3), 1014.1(10.7)
• 1175.09 11	0.147 20	¹⁴⁶ Eu(4.59 d)	747.2(98), 633.03(43), 634.07(37)
• 1175.102 6	2.279 20	⁵⁶ Co(77.27 d)	846.771(100), 1238.282(67.6), 2598.459(17.28)
1175.3 2	†11.6 5	²⁰¹ Po(15.3 m)	890.1(†100), 240.1(†71.0), 904.2(†54.8)
1175.3 1	1.91 9	²⁰⁹ At(5.41 h)	545.0(91), 781.9(83.5), 790.2(63.5)
1175.31 10	0.025 4	²²⁸ Ac(6.15 h)	911.205(26.6), 968.971(16.2), 338.322(11.3)
1175.36 4	0.0607 22	¹⁹⁴ Ir(19.15 h)	328.455(13.1), 293.545(2.55), 645.157(1.17)
• 1175.36 4	1.98 12	¹⁹⁴ Au(38.02 h)	328.455(60), 293.545(10.2), 1468.91(6.3)
1175.38 10	0.14 4	¹⁷⁴ Tm(5.4 m)	366.526(92), 992.128(87), 272.918(86)
1175.40 8	1.11 4	⁸⁷ Kr(76.3 m)	402.586(49.6), 2554.8(9.2), 845.43(7.34)
1175.4 7	1.6 3	⁹⁵ Rh(5.02 m)	941.6(72), 1352.0(20.8), 677.6(5.80)
1175.4	3.27 13	¹⁴⁹ Tb(4.118 h)	352.24(29.43), 164.98(26.4), 388.57(18.37)
1175.4 3	0.119 19	¹⁵³ Dy(6.4 h)	80.723(11.10), 213.754(10.90), 99.659(10.51)
1175.5 3	1.00 7	¹⁵¹ Dy(17.9 m)	386.10(19.4), 49.46(18.0), 546.31(14.3)
1175.5 10	0.21 6	¹⁶⁷ Lu(51.5 m)	29.66(14.4), 239.22(8.6), 213.19(3.6)
1175.50 3	0.0351 22	²⁵⁰ Bk(3.217 h)	989.12(45), 1031.85(35.6), 1028.65(4.91)
1175.5	0.0068 14	²⁵⁰ Bk(3.217 h)	989.12(45), 1031.85(35.6), 1028.65(4.91)
1175.50 3	1.57 9	²⁵⁰ Es(2.22 h)	989.12(13.3), 1031.85(10.6), 828.82(5.5)
1175.58 8	1.0	⁸² Y(9.5 s)	573.66(25), 602.14(10), 737.35(2.3)
1175.7 5	0.47 12	⁷⁶ Ga(32.6 s)	562.93(66), 545.51(26.0), 1108.41(15.8)
1175.75 6	0.0034 8	¹⁴⁹ Nd(1.728 h)	211.309(25.9), 114.314(19.2), 270.166(10.7)
1175.8	0.19 4	¹⁴⁹ Tb(4.118 h)	352.24(29.43), 164.98(26.4), 388.57(18.37)
1175.82 11	0.00198 20	¹⁶¹ Gd(3.66 m)	360.94(0.59), 314.92(22.7), 102.315(13.9)
1175.9 3	1.8 5	¹⁵² Ho(49.5 s)	647.2(92), 613.8(88.4), 683.3(88)
1175.93 6	4.16 8	¹⁴² Cs(1.70 s)	359.598(27.2), 1326.46(12.92), 966.89(9.0)
1175.98 7	0.0047 5	¹³³ La(3.912 h)	278.835(2.50), 302.353(1.648), 290.06(1.413)
• 1176.0 5	9.0×10^{-5} 5	¹²⁹ Te(33.6 d)	695.88(2.988), 729.57(0.70), 556.65(0.118)
1176.0 2	0.47 4	¹⁵⁰ Tb(3.48 h)	638.05(72), 496.3(14.8), 792.5(4.39)
1176.01 22	0.62 6	¹⁸⁶ Au(10.7 m)	191.56(62), 298.67(25.4), 764.89(10.5)
1176.05 10	0.62 6	¹⁷⁴ Ta(1.05 h)	206.50(58), 91.00(16.0), 1205.92(4.9)
1176.09 3	0.48 3	¹⁶³ Tm(1.810 h)	104.320(18.6), 69.229(11.6), 241.305(10.9)
1176.1 2	66.3 23	⁹⁸ Cd(9.2 s)	347.18(78), 107.28(43.7), 60.55(35.1)
1176.1 2	0.14 4	¹⁷³ Ta(3.14 h)	172.2(18), 69.70(5.9), 90.3(5.0)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
1176.14 ³⁶	0.13 ⁴	¹³⁷ Nd(38.5 m)	75.5(17.0), 580.6(13), 306.60(10.0)
1176.2 ²	1.2 ⁴	¹²⁸ La(5.0 m)	284.00(87), 479.24(54), 643.65(14.7)
1176.2 ⁵	0.49 ¹²	¹⁴⁴ La(40.8 s)	397.440(94.3), 541.20(39.2), 844.8(22.3)
1176.2 ³	0.32 ⁴	¹⁷⁵ Tm(15.2 m)	514.868(65), 941.23(15), 363.942(12.7)
1176.23 ¹⁵	0.25	¹⁸⁶ Ta(10.5 m)	197.93(50), 214.87(42.3), 510.82(37.5)
1176.3 ⁶	0.078 ⁶	¹³⁹ Xe(39.68 s)	218.59(56), 296.53(21.7), 174.97(11.3)
1176.3 ⁶		²⁰⁷ Rn(9.25 m)	344.53(46), 747.15(14.2), 402.68(11.9)
1176.4 ⁴	0.14	¹⁴² La(91.1 m)	641.285(47), 2397.8(13.3), 2542.7(10.00)
• 1176.4 ²	1.69 ⁵	¹⁴⁶ Eu(4.59 d)	747.2(98), 633.03(43), 634.07(37)
1176.4 ⁶	1.1 ³	¹⁴⁸ Ho(9.59 s)	1687.5(82.47), 660.8(58.94), 504.3(18.62)
1176.4 ³	0.129 ¹⁸	¹⁵³ Dy(6.4 h)	80.723(11.10), 213.754(10.90), 99.659(10.51)
1176.46 ¹⁶	0.027 ³	¹⁶⁸ Ho(2.99 m)	741.356(36.6), 821.164(34.5), 815.990(18.6)
• 1176.48 ²²	0.159 ¹⁶	¹⁶⁹ Lu(34.06 h)	960.622(23.4), 191.2137(20.6), 1449.74(9.92)
1176.5 ²	0.058 ¹¹	¹⁰⁷ Ru(3.75 m)	194.05(9.9), 847.93(5.3), 462.61(3.66)
1176.5 ¹⁰	0.20 ¹⁶	¹⁸¹ Os(105 m)	238.75(44), 826.77(20), 118.03(12.9)
1176.5 ⁵	†7.4 ⁶	¹⁹⁵ Bi(183 s)	807.6(†100), 831.7(†100), 776.2(†95)
1176.626	14.09 ¹³	³⁴ Cl(32.00 m)	2127.492(42.8), 3304.039(12.29), 4114.54(0.273)
1176.67 ¹⁵	0.44 ⁵	⁷⁷ Rb(3.75 m)	66.52(57), 178.99(22.2), 393.37(9.7)
1176.67 ¹²	0.63 ⁴	¹⁴¹ Cs(24.94 s)	48.53(7.90), 561.63(4.7), 1194.02(3.95)
1176.7 ²	1.10 ¹⁴	¹⁴⁰ Xe(13.60 s)	805.52(20), 1413.66(12.2), 1315.05(8.2)
1176.704 ^{169.54}	19	¹⁶⁶ Tm(7.70 h)	778.817(18.9), 2052.36(17.2), 184.410(16.1)
1176.9 ⁹	0.0037 ¹⁵	⁹⁰ Rb(258 s)	831.69(94), 1375.36(16.7), 3317.00(14.4)
1176.9 ⁹	0.028 ¹¹	⁹⁰ Rb(158 s)	831.69(28), 1060.70(6.69), 4365.90(5.6)
1176.9 ⁸	0.353 ¹⁹	¹⁰¹ Pd(8.47 h)	296.29(19), 590.44(12.06), 269.67(6.43)
1176.9 ⁴	0.21 ⁵	¹⁰⁵ In(5.07 m)	131.37(41), 260.21(15.7), 604.11(9.2)
1176.9 ⁴	†0.9 ³	¹⁷¹ Hf(12.1 h)	122.0(†100), 662.2(†83), 347.18(†47)
1176.9 ⁵	0.11	²⁰³ Bi(11.76 h)	820.3(30), 825.2(14.6), 896.9(13)
1177.0 ³	0.11 ³	¹⁰⁹ Ru(34.5 s)	206.29(22.0), 225.98(19.6), 1929.05(13.7)
1177.0 ⁶	0.07 ³	¹²² Cs(21.0 s)	331.1(48), 512.0(3.8), 817.9(3.09)
1177.0 ³	†19 ²	¹³⁵ Pm(49 s)	198.5(†100), 207.2(†70), 463.5(†62)
1177.04 ¹⁰	0.71 ⁸	¹¹⁹ Te(16.03 h)	644.01(84), 699.85(10.1), 1749.65(3.95)
1177.04 ⁴	0.12 ⁶	²⁰⁴ Po(3.53 h)	883.984(29.9), 270.068(27.8), 1016.31(24.1)
• 1177.06 ²⁰	0.000228 ²⁴	¹²³ Sn(129.2 d)	1088.64(0.6), 1030.23(0.0310), 1021.00(0.00193)
1177.1 ⁴	0.74 ¹⁸	¹⁸⁶ Tl(27.5 s)	405.43(92), 402.72(45.9), 356.84(29.3)
1177.1 ⁵	†1.4 ²	²⁰⁰ At(43 s)	665.9(†100), 611.1(†85.0), 484.5(†49.8)
1177.14 ⁴	1.62 ⁹	²⁰⁸ Rn(24.35 m)	426.78(7.07), 251.05(5.02), 350.026(3.34)
1177.2 ⁴	0.067 ¹⁷	¹⁹⁹ Pb(90 m)	366.90(44.2), 353.39(9.5), 1135.04(7.8)
1177.2 ²	0.0037 ¹⁰	²⁴⁶ Am(25.0 m)	1078.86(27.7), 798.80(25), 1062.04(17.1)
1177.22 ³	0.00378 ²¹	¹⁴⁵ Pr(5.984 h)	748.278(0.5250), 675.795(0.514), 72.500(0.261)
1177.3 ⁶	0.363 ⁶	¹⁸ N(624 ms)	1981.95(83.2), 821.76(49.0), 1651.61(48.9)
1177.3 ⁴	2.2 ²	¹³⁰ Sb(6.3 m)	839.49(100), 793.53(86), 182.36(41)
1177.4 ¹	2.19 ⁸	¹³⁰ La(8.7 m)	357.4(81.0), 550.7(25.9), 908.0(17.0)
1177.4 ⁵	0.006 ³	¹⁵¹ Tb(17.609 h)	287.357(28.3), 251.863(26.3), 108.088(24.3)
1177.4 ⁴	†2.0 ³	¹⁶⁸ Re(4.4 s)	199.3(†100), 363.2(†95), 479.8(†62.8)
1177.4 ³	0.26 ⁴	¹⁸³ Ir(58 m)	392.52(10.4), 228.70(6.9), 87.67(5.6)
1177.42 ¹⁸	0.24 ³	⁷⁴ Ga(8.12 m)	595.847(91), 2353.46(44.5), 608.353(14.3)
1177.6	0.27	⁹⁶ Y(9.6 s)	1750.42(89), 915.0(60), 617.1(56)
1177.6 ³	0.036 ⁶	¹⁴³ La(14.2 m)	620.3(2.34), 643.75(1.55), 621.4(1.52)
1177.6 ⁹	0.08 ⁸	¹⁷⁵ Ta(10.5 h)	207.4(14.0), 348.5(12.0), 266.9(10.8)
1177.70 ²⁰	0.235 ²⁰	¹²³ Cd(1.82 s)	1165.86(25.7), 1027.45(22.6), 2102.81(12.5)
1177.70 ²	0.36 ¹²	¹⁴⁵ Cs(0.594 s)	175.36(20), 198.93(10.9), 112.46(10.71)
1177.7 ⁵	0.034 ¹⁸	¹⁵¹ Nd(12.44 m)	116.80(43.4), 255.68(16.4), 1180.89(14.8)
• 1177.7 ⁴	0.159 ¹⁶	¹⁶⁹ Lu(34.06 h)	960.622(23.4), 191.2137(20.6), 1449.74(9.92)
1177.7 ²	0.36 ⁵	²³⁶ Pa(9.1 m)	642.35(37.0), 687.59(9.9), 1762.7(6.0)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
1177.71 ¹⁹	0.29 ⁴	¹⁵⁴ Tb(9.4 h)	123.071(30), 247.925(22.1), 540.18(20)
1177.71 ¹⁹		¹⁵⁴ Tb(21.5 h)	123.071(26), 1274.436(10.5), 2187.10(9.9)
1177.75 ⁶	3.24 ¹⁹	¹⁵⁴ Pm(1.73 m)	2057.76(17.1), 1393.9(14.4), 81.99(12.6)
1177.75 ⁶	0.29	¹⁵⁴ Pm(2.68 m)	184.810(32), 81.99(15.4), 546.66(14.5)
1177.8 ¹⁰	\dagger 16 ³	¹⁸⁹ Au(28.7 m)	713.17(\dagger 100), 812.68(\dagger 63), 447.65(\dagger 55)
• 1177.962 ⁴	15.07 ⁹	¹⁶⁰ Tb(72.3 d)	879.383(30.01), 298.580(25.51), 966.171(25.21)
1177.962 ⁴	\dagger 1.95 ²³	¹⁶⁰ Ho(5.02 h)	728.18(\dagger 100), 879.383(\dagger 65.9), 962.317(\dagger 59.1)
1178.0 ⁵	0.22 ⁵	¹⁵⁶ Ho(56 m)	266.35(54.7), 137.83(51), 366.25(10.73)
1178.0 ¹⁵	0.061 ²⁰	¹⁶³ Yb(11.05 m)	860.28(10.1), 63.62(6.5), 123.21(1.98)
1178 ¹	\dagger 4.4 ⁷	²⁴⁴ Bk(4.35 h)	891.5(\dagger 100), 217.6(\dagger 88), 921.5(\dagger 19)
1178.03 ¹¹	1.29 ⁷	⁹¹ Kr(8.57 s)	108.788(43.5), 506.592(19.1), 612.87(7.7)
1178.03 ⁴	0.293 ¹⁵	¹³¹ La(59 m)	108.081(25.0), 417.783(18.0), 365.162(16.9)
1178.03 ¹²	0.62 ⁴	¹⁴¹ Cs(24.94 s)	48.53(7.90), 561.63(4.7), 1194.02(3.95)
• 1178.07 ²¹	0.19 ³	¹⁰⁶ Ag(8.28 d)	511.842(88), 1045.83(29.6), 717.24(28.9)
1178.1 ⁸	\dagger 4.0 ¹²	¹⁵² Pr(3.24 s)	164.2(\dagger 100), 284.9(\dagger 81.0), 72.40(\dagger 38.9)
1178.1	0.07	¹⁸⁵ Ir(14.4 h)	254.4(13.3), 1828.8(10), 60.0(5.7)
1178.2 ²	0.33 ¹¹	²⁰³ Po(36.7 m)	908.64(55), 1090.95(19.2), 893.49(18.7)
1178.2 ⁵	0.071 ¹⁶	²²⁷ Fr(2.47 m)	90.035(39), 585.804(29.5), 64.267(14.5)
1178.3	0.069 ¹⁴	¹⁴¹ Ba(18.27 m)	190.328(46.0), 304.194(25.4), 276.948(23.4)
1178.3 ⁴	0.22 ⁴	¹⁵¹ Dy(17.9 m)	386.10(19.4), 49.46(18.0), 546.31(14.3)
1178.35 ⁹	0.077 ⁷	¹³⁹ Cs(9.27 m)	1283.23(8.3), 627.24(1.78), 1420.66(0.91)
1178.39 ⁴	0.563 ²⁵	¹⁵⁵ Ho(48 m)	240.19(12.5), 136.30(5.00), 45.38(5)
1178.4 ²⁰	1.36 ¹⁷	²¹² Fr(20.0 m)	1273.8(46), 227.72(43), 1185.6(14.1)
1178.5	\dagger 100 ⁵	³⁴ Si(2.77 s)	429.07(\dagger 94), 1607.6(\dagger 56)
1178.5 ¹	0.0013 ⁶	¹²⁷ Cs(6.25 h)	411.95(62.8), 124.70(11.37), 462.31(5.07)
1178.5 ²	0.038 ⁷	¹⁷⁶ Ta(8.09 h)	1159.28(25), 88.34(12), 1224.93(6)
1178.53 ¹⁵	13.2 ⁶	¹⁶⁵ Tb(2.11 m)	538.51(7.2), 1292.05(7.0), 1664.80(6.4)
1178.536 ^{240.008}	3	¹⁸³ Os(13.0 h)	381.768(89.6), 114.463(20.63), 167.844(8.81)
• 1178.55 ⁴⁰	0.0096 ²⁴	⁸³ Sr(32.41 h)	762.65(30), 381.53(14.1), 418.37(4.41)
1178.6 ²	0.538 ²³	¹⁹⁴ Pb(12.0 m)	581.82(18.8), 1519.45(16.4), 203.82(16.2)
1178.66 ⁶	5.16 ²⁵	⁹⁵ Ru(1.643 h)	336.43(70.2), 1096.76(21.0), 626.77(17.8)
1178.7 ²	0.26 ⁷	¹⁷³ Ta(3.14 h)	172.2(18), 69.70(5.9), 90.3(5.0)
1178.73 ¹²	0.34 ⁶	¹³⁹ Xe(39.68 s)	218.59(56), 296.53(21.7), 174.97(11.3)
1178.73 ¹	0.028 ¹⁷	¹³⁹ Xe(39.68 s)	218.59(56), 296.53(21.7), 174.97(11.3)
1178.8 ⁴	2.9 ³	¹⁷⁶ Tm(1.9 m)	189.57(44.5), 1069.3(34), 381.8(21.8)
1178.8 ³	0.126 ¹⁴	¹⁸⁷ Au(8.4 m)	1331.81(7.0), 1408.23(3.06), 914.73(3.02)
1178.9 ³	0.10 ³	⁹² Kr(1.840 s)	142.307(64), 1218.6(60), 812.6(14.6)
1178.90 ⁸⁶	0.11 ³	¹⁴¹ Xe(1.73 s)	909.23(24.0), 118.705(16.1), 105.937(9.8)
1178.91 ⁹	0.80 ¹¹	¹¹⁸ I(8.5 m)	605.71(99), 600.71(92), 614.42(65)
1179 ¹	0.09 ⁴	⁷⁶ Br(16.2 h)	559.101(74), 657.041(15.9), 1853.67(14.7)
1179.2 ⁶	\dagger 0.83 ¹¹	¹⁰² Tc(4.35 m)	475.070(\dagger 115), 628.05(\dagger 35.3), 631.28(\dagger 21.3)
1179.2 ⁴	0.50 ⁴	¹²⁷ Sn(2.10 h)	1114.3(39), 1095.6(20), 823.1(10.9)
• 1179.2	0.012	¹⁵³ Tb(2.34 d)	212.038(31.0), 170.504(6.8), 109.758(6.4)
1179.2 ⁴	\dagger 5.8 ²³	¹⁵⁵ Nd(8.9 s)	180.574(\dagger 100), 418.99(\dagger 75), 955.08(\dagger 50)
1179.2 ⁴	\dagger 1.5 ³	¹⁸⁹ Hg(7.6 m)	320.99(\dagger 100), 78.21(\dagger 63), 565.42(\dagger 48)
1179.4 ⁷	0.56 ⁶	¹⁹⁹ Bi(27 m)	560.1(22.0), 424.85(22), 841.7(11)
1179.4 ²	\dagger 6	²³⁸ Pa(2.3 m)	1015.3(\dagger <100), 1014.6(\dagger <100), 635.18(\dagger 88)
1179.49 ⁶	0.036 ⁶	¹³⁵ Ce(17.7 h)	265.56(41.8), 300.07(23.5), 606.76(18.8)
1179.5 ¹⁰	0.9	¹¹¹ Sb(75 s)	154.48(71), 489.1(42), 1032.6(10.0)
1179.5 ¹⁵	0.22	²⁰⁷ At(1.80 h)	814.41(44.5), 588.33(19.2), 300.654(12.8)
1179.51 ³	0.996 ²¹	⁸⁸ Kr(2.84 h)	2392.11(34.6), 196.301(25.98), 2195.842(13.18)
1179.6 ⁶	0.102 ²⁰	¹⁵⁰ Pm(2.68 h)	333.971(68), 1324.51(17.5), 1165.739(15.8)
• 1179.63 ¹³	0.0174 ²⁵	¹⁵³ Tb(2.34 d)	212.038(31.0), 170.504(6.8), 109.758(6.4)
1179.7 ²	\dagger 4 ¹	¹⁵³ Yb(4.2 s)	547.4(\dagger 100), 674.1(\dagger 61), 369.6(\dagger 32)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
1179.8 3	0.59 10	⁹⁵ Rb(377.5 ms)	352.02(49), 204.02(15.1), 680.7(14.8)
1179.8 5	0.17 7	¹²¹ Cs(155 s)	153.9(15.2), 239.6(7.7), 427.1(3.63)
1179.8 5	0.13 5	¹²¹ Cs(122 s)	179.4(30.2), 196.0(24.1), 459.7(12.0)
1179.8 5	>0.13	¹³⁷ Nd(38.5 m)	75.5(17.0), 580.6(13), 306.60(10.0)
1180.0 2	3.28 23	⁹⁶ Rb(0.199 s)	815.0(78.00), 692.0(8.0), 813.2(7.0)
1180.0 2	1.4	⁹⁷ Rb(169.9 ms)	815.0(100), 692.0(16.5), 414.3(15.0)
1180.0 5	0.60 12	¹⁰¹ Zr(2.1 s)	119.3(10.8), 205.6(6.0), 912.2(3.48)
1180.0 2	0.081 11	¹³⁷ Pr(1.28 h)	836.7(1.8), 433.9(1.28), 514.0(1.08)
1180.00 15	1.07 15	²⁰⁸ At(1.63 h)	686.527(98), 660.040(89), 177.595(48.6)
1180.1 2	0.12 3	¹³³ Ce(4.9 h)	477.22(39), 510.36(20.7), 58.39(19.2)
1180.18 7	0.156 10	¹¹⁸ In(4.45 m)	1229.68(96), 1050.69(81.0), 683.08(54.3)
1180.2 2	†1.00 15	¹²⁹ Ba(2.17 h)	182.30(†100), 1459.1(†50.0), 202.38(†33.7)
1180.2 5	0.14 6	¹⁴⁰ Xe(13.60 s)	805.52(20), 1413.66(12.2), 1315.05(8.2)
1180.2 2	0.020 5	²⁴⁰ Np(7.22 m)	554.60(20.9), 597.40(11.7), 1496.9(1.33)
• 1180.2 2	0.0102 8	²⁴⁰ Am(50.8 h)	987.76(73.2), 888.80(25.1), 98.860(1.5)
• 1180.231 100.183 5		¹⁴⁷ Eu(24.1 d)	197.299(27), 121.220(22.9), 677.516(9.8)
• 1180.266 140.086 8		⁸² Br(35.30 h)	776.517(83.5), 554.348(70.8), 619.106(43.4)
1180.266 140.00394 18		⁸² Br(6.13 m)	776.517(0.26), 698.374(0.0340), 1474.88(0.0198)
1180.266 140.0148 13		⁸² Rb(1.273 m)	776.517(13), 1395.139(0.471), 698.374(0.133)
1180.266 140.118 17		⁸² Rb(6.472 h)	776.517(84), 554.348(62.4), 619.106(37.976)
1180.28 18 0.77 13		¹³³ Sb(2.5 m)	1096.22(43.0), 817.8(18.5), 2755(12.5)
1180.3 10 0.16 3		²²⁸ Fr(39 s)	473.7(10.2), 474.0(7.6), 410.40(6.3)
1180.31 9 0.28 5		¹⁵⁸ Eu(45.9 m)	944.09(25), 977.131(13.6), 79.5104(11)
1180.32 8 0.70 3		⁷⁸ Rb(5.74 m)	454.97(81), 664.44(38.3), 1109.72(13.12)
• 1180.37 7 0.108 9		¹⁵⁶ Tb(5.35 d)	534.318(66.6), 199.2132(40.9), 1222.36(31.00)
1180.4 4 0.26 4		⁸⁸ Nb(7.8 m)	1057.01(89.3), 1082.53(53.9), 399.41(45.7)
1180.4 4 0.09 5		¹⁸⁵ Au(4.25 m)	310.6(13), 243.1(6.6), 77.7(6)
• 1180.45 6 0.190 21		¹⁶⁹ Lu(34.06 h)	960.622(23.4), 191.2137(20.6), 1449.74(9.92)
1180.46 9 0.064 9		¹³⁵ I(6.57 h)	1260.409(28.90), 1131.511(22.74), 1678.027(9.62)
1180.6 5 0.8 4		¹⁶⁴ Tb(3.0 m)	168.838(25.4), 754.80(23.3), 215.07(21)
1180.6 5 1.7 4		¹⁶⁴ Tb(3.0 m)	168.838(25.4), 754.80(23.3), 215.07(21)
• 1180.686 120.11 4		²⁰⁰ Tl(26.1 h)	367.943(87), 1205.717(29.9), 579.298(13.8)
1180.7 2 2.29 7		⁶⁹ Cu(2.85 m)	1007.5(23.4), 834.4(13.1), 531.2(6.0)
• 1180.70 10 0.066 7		²⁰⁶ Bi(6.243 d)	803.10(99), 881.01(66.2), 516.18(40.7)
1180.72 6 0.01448 20		¹⁰⁶ Rh(29.80 s)	511.842(20), 621.94(9.93), 1050.39(1.56)
1180.72 6 0.0055 5		¹⁰⁶ Ag(23.96 m)	511.842(17.0), 621.94(0.316), 873.48(0.199)
• 1180.75 30 0.0112 13		¹⁷⁰ Lu(2.00 d)	84.2551(4.256), 1280.25(3.450), 2041.88(1.434)
1180.76 17 0.24 3		⁹³ Sr(7.423 m)	590.238(67), 875.73(24.1), 888.13(21.8)
• 1180.76 3 0.086 5		¹⁸² Ta(114.43 d)	67.75001(41.2), 1121.3007(34.9), 1221.4066(26.98)
• 1180.76 3 0.55 3		¹⁸² Re(64.0 h)	229.3220(26), 67.75001(22.2), 1121.3007(22.0)
1180.8 1 0.037 3		¹¹³ Ag(5.37 h)	298.58(10), 258.8(1.64), 316.3(1.343)
1180.838 250.684 14		¹²⁵ Xe(16.9 h)	188.418(54), 243.378(30.1), 54.968(6.81)
1180.89 2 14.8 3		¹⁵¹ Nd(12.44 m)	116.80(43.4), 255.68(16.4), 138.89(7.84)
1180.9		¹⁶¹ Er(3.21 h)	826.6(3.0), 211.15(12.2), 592.6(3.7)
1180.9 2 †3.5 7		¹⁸⁷ Hg(1.9 m)	233.38(†100), 376.34(†38), 240.26(†33)
1180.950 100.00026 18		⁸² Br(6.13 m)	776.517(0.26), 698.374(0.0340), 1474.88(0.0198)
1180.950 100.0027 13		⁸² Rb(1.273 m)	776.517(13), 1395.139(0.471), 698.374(0.133)
1181.0 10 0.032 11		¹⁰³ Tc(54.2 s)	346.380(17.5), 136.079(16.6), 562.90(7.0)
1181.0 4 12.3 13		¹¹³ Te(1.7 m)	814.4(22), 1018.1(13.0), 644.8(6.4)
1181.1 5 0.33 5		¹²¹ Xe(40.1 m)	252.7(13), 132.8(10.9), 445.2(7.7)
1181.1 3 0.059 8		¹⁸¹ Au(11.4 s)	198.60(4.4), 2022.4(4.2), 79.40(4.2)
1181.16 14 0.235 15		¹⁴¹ Cs(24.94 s)	48.53(7.90), 561.63(4.7), 1194.02(3.95)
1181.2 1 †1.80 16		¹⁵⁸ Ho(11.3 m)	218.21(†100.0), 98.91(†70), 945.7(†37)
1181.2 2 0.075 17		¹⁹² Au(4.94 h)	316.50791(58.0), 295.95827(22.3), 2236.89(5.6)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
• 1181.23 20	0.00029 3	¹²³ Sn(129.2 d)	1088.64(0.6), 1030.23(0.0310), 1021.00(0.00193)
1181.3 5	†1.17 23	²⁰¹ Po(15.3 m)	890.1(†100), 240.1(†71.0), 904.2(†54.8)
1181.3 1	1.44 9	²¹¹ Rn(14.6 h)	674.1(45), 1362.9(32.5), 678.4(28.9)
1181.39 1	99.3 25	²¹⁰ At(8.1 h)	245.31(79), 1483.39(46.5), 1436.70(29.0)
• 1181.4 4	0.015 10	¹³¹ Te(30 h)	773.67(49.9), 852.21(27.0), 793.75(18.10)
1181.4 8	0.028 21	¹⁴⁰ Cs(63.7 s)	602.345(71.1), 908.25(11.6), 1200.25(6.39)
1181.44 6	0.94 4	⁷⁹ Ge(19.1 s)	109.58(21), 1505.85(9.2), 100.48(2.70)
1181.45 10	12.4 4	¹²¹ Cd(8.3 s)	2059.41(21.0), 1020.89(18.9), 987.81(13.6)
1181.45 10	0.087 16	²⁰⁴ Bi(11.22 h)	899.15(98), 374.72(82), 984.02(59)
1181.5 1	0.074 13	¹⁴⁵ Gd(23.0 m)	1757.9(34.2), 1880.6(32.6), 1041.8(9.9)
• 1181.5 3	0.448 9	¹⁷⁰ Lu(2.00 d)	84.2551(4.256), 1280.25(3.450), 2041.88(1.434)
1181.5 5	1.03 22	¹⁸¹ Os(105 m)	238.75(44), 826.77(20), 118.03(12.9)
1181.5 5	0.62 6	¹⁸⁶ Au(10.7 m)	191.56(62), 298.67(25.4), 764.89(10.5)
1181.57 5	0.1068 13	¹²⁷ Cs(6.25 h)	411.95(62.8), 124.70(11.37), 462.31(5.07)
1181.6 4	4.5 5	¹²⁸ Sb(9.01 h)	753.82(100), 743.22(100), 314.12(61)
1181.6 10	0.11 3	¹⁵⁹ Eu(18.1 m)	67.8(19), 78.6(9.1), 95.7(7.0)
1181.6 2	0.16 3	²⁴² Np(2.2 m)	735.93(5), 780.44(2.76), 1473.1(2.34)
1181.9 15	1.6 11	¹⁶⁸ Ta(2.0 m)	124.0(35.6), 261.6(22.7), 751.4(7.3)
1181.94 16	0.151 20	¹⁶³ Tm(1.810 h)	104.320(18.6), 69.229(11.6), 241.305(10.9)
1181.96 11	0.00012 5	¹²⁹ Te(69.6 m)	27.81(16.3), 459.60(7.70), 487.39(1.42)
1181.99 13	0.0012 3	¹³³ La(3.912 h)	278.835(2.50), 302.353(1.648), 290.06(1.413)
1182.0 3	5.0×10 ⁻⁵	¹⁴⁴ Pr(17.28 m)	696.510(1.3), 2185.662(0.694), 1489.160(0.278)
1182.0 5	0.0003 2	¹⁷¹ Er(7.516 h)	308.31(64.4), 295.901(28.9), 111.621(20.5)
1182.02 23	†3.4 4	¹⁶⁵ Lu(10.74 m)	132.49(†100), 120.60(†100), 174.25(†47.0)
1182.05 46	0.10 3	¹³⁷ Nd(38.5 m)	75.5(17.0), 580.6(13), 306.60(10.0)
1182.10 11	0.044 11	⁶⁹ As(15.2 m)	232.69(11), 145.95(4.96), 86.78(3.44)
1182.1 3	0.51 7	⁷⁶ Ga(32.6 s)	562.93(66), 545.51(26.0), 1108.41(15.8)
1182.1 2	0.009	²³⁴ Pa(6.70 h)	131.30(18), 946.00(13.4), 883.24(9.6)
1182.1 5	0.0070 20	²⁴⁰ Np(7.22 m)	554.60(20.9), 597.40(11.7), 1496.9(1.33)
1182.13 4	0.289 9	¹⁵¹ Tb(17.609 h)	287.357(28.3), 251.863(26.3), 108.088(24.3)
1182.2 4	0.52 20	⁹⁹ Ag(124 s)	264.41(65), 832.29(13.5), 805.07(12.5)
1182.3 2	†1.4 2	⁷⁵ Ga(126 s)	253.0(†100), 574.8(†31.6), 885.6(†11.1)
1182.30 30	0.74 10	¹⁰⁵ In(5.07 m)	131.37(41), 260.21(15.7), 604.11(9.2)
1182.3 4	0.09 3	¹⁴⁶ Ba(2.22 s)	140.7(20.2), 251.2(19.6), 121.2(14.2)
1182.3 3	†9 1	¹⁸¹ Ir(4.90 m)	107.64(†100), 1639.6(†52), 318.9(†46)
1182.38 20	0.167 22	⁸⁹ Kr(3.15 m)	220.948(20.1), 586.03(16.6), 904.27(7.2)
1182.4 2		¹³¹ Sn(56.0 s)	3267.5, 2470.5, 2039.25
1182.4 2	†4.2 10	¹³¹ Sn(56.0 s)	1226.03(†100), 450.03(†90), 798.50(†86)
1182.4	0.37	¹⁴⁸ Pr(2.27 m)	301.702(61), 1357.78(5.5), 1023.18(4.8)
1182.48 7	0.00079 16	¹⁴⁵ Pr(5.984 h)	748.278(0.5250), 675.795(0.514), 72.500(0.261)
1182.5 5	0.84 9	¹⁶¹ Yb(4.2 m)	78.20(34), 599.88(25.9), 631.45(13.9)
1182.5 3	3.74 8	¹⁷⁷ W(135 m)	115.65(50), 426.98(13.2), 1036.4(10.3)
1182.65 21	0.22 3	⁹⁵ Ru(1.643 h)	336.43(70.2), 1096.76(21.0), 626.77(17.8)
1182.70 8	0.67 4	¹⁴⁷ Pr(13.4 m)	77.9921(15), 314.675(13.2), 641.380(10.0)
1182.77 11	1.52 3	¹⁰³ Ag(65.7 m)	118.72(31.2), 148.193(28.3), 266.86(13.3)
1182.8 2	†0.73 9	¹⁶⁰ Ho(5.02 h)	728.18(†100), 879.383(†65.9), 962.317(†59.1)
1183.0 5	3.4 3	⁹⁸ Ag(46.7 s)	863.1(100), 678.5(85), 570.93(53)
1183.00 5	0.0348 18	¹²² I(3.63 m)	564.119(18), 692.794(1.325), 793.278(1.297)
1183.0 4	1.3 3	¹³² Sb(2.79 m)	973.9(99), 696.8(86), 989.6(14.9)
1183.0 2	0.073 5	²⁵¹ Fm(5.30 h)	880.8(2.19), 453.1(1.45), 405.6(0.99)
1183.07 15	0.201 13	¹⁴¹ Cs(24.94 s)	48.53(7.90), 561.63(4.7), 1194.02(3.95)
1183.072 120.112 9		¹⁸⁰ Re(2.44 m)	902.795(90), 103.557(22.2), 825.357(9.9)
1183.1 5	0.093 8	¹⁴⁶ Pr(24.15 m)	453.88(48.0), 1523.7(15.6), 735.72(7.5)
1183.1 5	0.54 13	¹⁵³ Ho(2.0 m)	295.8(67), 637.0(5.36), 688.5(3.7)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
1183.1 2	0.136 18	²⁰⁹ At(5.41 h)	545.0(91), 781.9(83.5), 790.2(63.5)
1183.2 5	<0.12	¹³⁴ I(52.6 m)	847.025(95.4), 884.090(64.9), 1072.547(15.0)
• 1183.208 161.66 4		¹⁴⁸ Eu(54.5 d)	550.284(98.5), 629.987(71.9), 611.293(20.5)
1183.3 5	0.317 24	¹⁶¹ Er(3.21 h)	826.6(3.0), 211.15(12.2), 592.6(3.7)
1183.3 4	0.317 24	¹⁶¹ Er(3.21 h)	826.6(3.0), 211.15(12.2), 592.6(3.7)
1183.33 9	1.10 4	¹³³ Ce(4.9 h)	477.22(39), 510.36(20.7), 58.39(19.2)
1183.4 1	0.13 3	¹¹⁷ Cd(2.49 h)	273.349(28), 1303.27(18.4), 344.459(17.9)
1183.4 2	1.3 4	¹²¹ Cd(8.3 s)	2059.41(21.0), 1020.89(18.9), 987.81(13.6)
1183.4	†8	¹³¹ Nd(27 s)	87.8(†100), 174.42(†34), 164.09(†25)
1183.47 3	3.22 22	¹³³ Sb(2.5 m)	1096.22(43.0), 817.8(18.5), 2755(12.5)
1183.5 1	0.048 5	⁹³ Y(10.18 h)	266.9(7.3), 947.1(2.09), 1917.8(1.55)
1183.5 4	†2.7 5	¹⁴² Xe(1.22 s)	571.83(†100), 657.05(†79), 538.24(†77)
1183.50 10	1.22 11	²⁰⁵ Po(1.66 h)	872.39(37), 1001.21(28.8), 849.83(25.5)
1183.5 8	0.112 11	²²⁶ Fr(48 s)	253.73(22.3), 186.05(16.3), 253.9(2.5)
1183.51 4	0.304 10	¹⁹⁴ Ir(19.15 h)	328.455(13.1), 293.545(2.55), 645.157(1.17)
• 1183.51 4	0.62 6	¹⁹⁴ Au(38.02 h)	328.455(60), 293.545(10.2), 1468.91(6.3)
1183.53 3	0.018 4	¹⁷⁸ Lu(28.4 m)	93.180(6.0), 1340.8(3.22), 1310.05(1.40)
1183.53 3	0.169 5	¹⁷⁸ Ta(9.31 m)	93.180(1.78), 1350.68(1.18), 1340.8(1.027)
1183.6 3	0.46 10	⁶⁵ Ge(30.9 s)	649.7(33), 62.0(27), 809.1(21.5)
1183.6 2	0.028 9	⁹⁸ Nb(51.3 m)	787.374(93), 722.645(73.8), 1168.830(17.8)
1183.6	†1.0 4	¹³¹ Pr(1.53 m)	266.13(†100), 72.82(†64), 387.56(†38)
1183.6 3	0.22 3	¹⁸¹ Au(11.4 s)	198.60(4.4), 2022.4(4.2), 79.40(4.2)
1183.7 2	0.071 18	¹⁴⁹ Tb(4.118 h)	352.24(29.43), 164.98(26.4), 388.57(18.37)
1183.7 2	0.56 19	¹⁴⁹ Er(8.9 s)	1171.0(9.4), 171.5(6.5), 343.9(6.3)
1183.7 7	0.25 5	²⁰¹ Bi(108 m)	629.1(24.0), 936.2(11.3), 1014.1(10.7)
1183.8 5	0.29 9	¹¹⁵ Ag(20.0 m)	229.08(18), 212.80(4.4), 472.70(4.0)
1183.90 17	0.079 22	¹⁰⁰ Sr(202 ms)	963.85(22.0), 898.50(18.9), 65.46(15.2)
1183.9 2	0.89 3	¹³⁵ Te(19.0 s)	603.5(37.0), 266.8(10.36), 870.3(7.73)
1183.97 8	2.5 3	¹⁵⁸ Eu(45.9 m)	944.09(25), 977.131(13.6), 79.5104(11)
1184.0	7.3 4	³⁵ K(190 ms)	2982.67(50.8), 2589.80(26.4), 1750.6(14.2)
1184 2	1.9 8	⁷⁰ As(52.6 m)	1039.20(81), 1114.1(21.8), 668.3(21.8)
1184.0	0.16	⁹⁵ Sr(23.90 s)	685.6(23), 2717.3(4.6), 2933.1(4.1)
1184.0 4	0.91 13	¹²⁰ In(3.08 s)	1171.3(19), 2039.8(1.86), 703.8(1.42)
1184.0 4	2.4 8	¹²⁰ In(46.2 s)	1171.3(96), 1023.1(55), 863.7(32.5)
1184.0 5	0.0549 16	¹²⁶ Cs(1.64 m)	388.633(41), 491.243(5.0), 925.24(4.56)
1184.0 8	0.28 10	¹³⁶ Nd(50.65 m)	108.90(32), 40.2(18.9), 574.8(10.4)
• 1184.0 5		¹⁴⁶ Eu(4.59 d)	747.2(98), 633.03(43), 634.07(37)
1184.05 10	0.024 3	¹⁵⁵ Dy(9.9 h)	226.918(68.4), 184.564(3.37), 1089.8(>2.8)
1184.09 3	1.09 4	¹³⁵ Ce(17.7 h)	265.56(41.8), 300.07(23.5), 606.76(18.8)
1184.1 1	0.249 5	⁷⁹ Rb(22.9 m)	688.1(23), 182.77(19.2), 143.41(13.9)
1184.1 5	4.6 3	⁹⁷ Rh(46.2 m)	189.21(49), 2245.6(14), 421.55(12.7)
1184.10 28	0.39 6	¹⁰³ Cd(7.3 m)	1461.81(12), 1448.70(5.55), 1079.90(5.44)
1184.1 2	0.016 6	¹¹⁹ I(19.1 m)	257.52(87), 635.86(2.69), 320.53(2.17)
1184.16 13	†39 5	¹⁶⁴ Tm(2.0 m)	91.40(†1500), 1154.66(†366), 768.91(†279)
1184.19 23	0.196 17	¹⁰¹ Mo(14.61 m)	191.92(19), 590.91(16.4), 1012.47(12.8)
1184.2 1	0.227 14	¹⁴⁶ Ba(2.22 s)	140.7(20.2), 251.2(19.6), 121.2(14.2)
1184.2 3	0.104 15	¹⁵¹ Nd(12.44 m)	116.80(43.4), 255.68(16.4), 1180.89(14.8)
• 1184.28 3	0.331 13	¹⁷² Lu(6.70 d)	1093.657(62.5), 900.724(29.8), 181.528(20.6)
1184.3 3	0.17	⁴³ Ar(5.37 m)	975.0(34), 738.1(15), 1439.5(13)
1184.39 6	0.035 6	¹⁸⁹ Pt(10.87 h)	721.41(9.3), 94.33(7.6), 568.84(7.1)
1184.4 2	0.27 3	⁷⁴ Ga(8.12 m)	595.847(91), 2353.46(44.5), 608.353(14.3)
1184.4 4	1.16 15	¹⁵⁴ Pr(2.3 s)	162.4(15), 932.1(11.7), 70.8(11.22)
1184.4 6	0.025 13	²²⁸ Pa(22 h)	911.205(4.19), 463.005(1.250), 964.770(4.25)
• 1184.446 272.95 14		¹⁶⁵ Tm(30.06 h)	242.917(35.5), 47.155(16.9), 297.369(12.71)

• $t_{1/2} > 1$ d

Energy-ordered Decay γ -ray Tables from the *Table of Isotopes*

$E_{\gamma}(\Delta E)$	$I_{\gamma}(\Delta I)$	Decay Parent	Associated γ -rays: $E_{\gamma}(I_{\gamma})$
1184.5 3	0.060 24	¹⁵⁷ Er(18.65 m)	53.05(24), 391.32(14.2), 121.57(10.1)
1184.5 5	0.10 5	²⁰⁸ At(1.63 h)	686.527(98), 660.040(89), 177.595(48.6)
1184.5 3	0.53 5	²³⁸ Am(98 m)	962.77(28), 918.69(23.0), 561.11(10.9)
• 1184.5 3	5×10^{-7} 2	²⁴² Cm(162.8 d)	44.08(0.0325), 101.90(0.0025), 157.42(0.0014)
1184.55 13	0.108 16	¹⁷⁶ Ta(8.09 h)	1159.28(25), 88.34(12), 1224.93(6)
1184.6 3	4.2 7	¹¹⁸ Cs(14 s)	337.4(100), 472.8(37.4), 586.6(15.4)
1184.7 6	0.019 4	⁹³ Y(10.18 h)	266.9(7.3), 947.1(2.09), 1917.8(1.55)
1184.7 2	0.0055 21	¹³¹ Te(25.0 m)	149.716(69), 452.323(18.18), 1146.96(4.95)
1184.70 6	0.084 9	¹³⁷ Xe(3.818 m)	455.490(31), 848.95(0.62), 1783.43(0.415)
• 1184.7 3	0.026 21	¹⁴⁷ Gd(38.06 h)	229.32(63), 396.00(34.3), 929.01(20.2)
1184.8 5	0.49	²⁰³ Bi(11.76 h)	820.3(30), 825.2(14.6), 896.9(13)
• 1184.88 3	2.22 9	¹⁶⁹ Lu(34.06 h)	960.622(23.4), 191.2137(20.6), 1449.74(9.92)
1184.9 8	0.6 3	¹¹⁵ Te(6.7 m)	770.40(34.2), 723.569(18), 1071.70(12.9)
1184.9	0.041 23	¹⁹² Au(4.94 h)	316.50791(58.0), 295.95827(22.3), 2236.89(5.6)
1184.92 12	0.00174 25	¹³⁴ La(6.45 m)	604.699(5.05), 1554.934(0.414), 563.227(0.359)
1184.94 8	$\dagger 6$ 6	¹⁶⁸ Lu(5.5 m)	1483.65($\dagger 100$), 228.58($\dagger 97$), 111.8($\dagger 68$)
1184.95 4	0.69 3	⁸⁸ Kr(2.84 h)	2392.11(34.6), 196.301(25.98), 2195.842(13.18)
1185.0 7	0.108 21	⁸⁴ Br(31.80 m)	881.610(42), 1897.761(14.7), 3927.5(6.8)
1185.0 8	0.051 25	¹⁰³ Ag(65.7 m)	118.72(31.2), 148.193(28.3), 266.86(13.3)
• 1185.0 2	0.150 11	¹⁴⁶ Eu(4.59 d)	747.2(98), 633.03(43), 634.07(37)
1185.0 3	4.4 17	¹⁵² Ho(161.8 s)	613.8(73), 613.8(14), 1098.0(12)
1185 1	$\dagger 6$ 1	¹⁶⁰ Eu(38 s)	173.19($\dagger 100$), 513.6($\dagger 60$), 412.56($\dagger 56$)
1185 1	0.10 5	¹⁹³ Hg(11.8 h)	257.97(61), 407.63(25), 573.25(14.2)
1185.1 3	>0.29	¹⁰⁹ In(4.2 h)	203.5(74), 623.7(5.5), 1148.9(4.3)
1185.1 6	0.12 3	¹⁶¹ Tm(33 m)	45.54(5.00), 1648.1(9.50), 84.40(9.4)
1185.1 3	0.017 5	²⁰⁸ Tl(3.053 m)	2614.533(99), 583.191(84.5), 510.77(22.6)
1185.19 3	3.5	⁹⁶ Y(9.6 s)	1750.42(89), 915.0(60), 617.1(56)
1185.20 12	20 6	⁸⁰ Y(35 s)	385.86(100), 595.06(39), 756.53(13)
1185.2 6	0.82 25	¹⁶⁶ Lu(2.65 m)	228.12(77.3), 337.50(41), 367.95(31.4)
1185.21 17	0.034 5	¹³⁹ Cs(9.27 m)	1283.23(8.3), 627.24(1.78), 1420.66(0.91)
1185.234 153.75 7		⁶¹ Cu(3.333 h)	282.956(12.2), 656.008(10.77), 67.412(4.23)
1185.3 3	1.72 11	⁶¹ Zn(89.1 s)	475.0(16.85), 1660.5(7.80), 970.0(2.57)
1185.35 15	0.65 3	¹⁹⁴ Pb(12.0 m)	581.82(18.8), 1519.45(16.4), 203.82(16.2)
1185.4 11		¹⁴⁴ Cs(1.01 s)	199.326($\dagger 100.0$), 639.00($\dagger 21.2$), 758.96($\dagger 20.6$)
1185.4 3	0.053 13	¹⁵³ Dy(6.4 h)	80.723(11.10), 213.754(10.90), 99.659(10.51)
1185.5 2	2.9 2	¹¹⁹ Cd(2.20 m)	1025.0(24.8), 2021.3(22.6), 720.7(17.9)
1185.6 2	$\dagger 1.2$ 6	¹⁰³ Nb(1.5 s)	102.64($\dagger 100$), 641.1($\dagger 55$), 538.5($\dagger 34.0$)
1185.6 1	0.124 25	¹²⁹ La(11.6 m)	278.6(25), 110.5(16.9), 457.0(8.0)
1185.6 3	0.46 6	¹⁵¹ Dy(17.9 m)	386.10(19.4), 49.46(18.0), 546.31(14.3)
1185.6 5	$\dagger 5.7$ 9	¹⁵² Tb(17.5 h)	344.281($\dagger 1500$), 586.294($\dagger 223$), 271.135($\dagger 203$)
1185.6 20	14.1 17	²¹² Fr(20.0 m)	1273.8(46), 227.72(43), 138.30(7.7)
1185.65 12	0.69 6	¹⁵⁷ Sm(482 s)	197.870(56.00), 196.461(16.8), 394.351(11.93)
1185.7 2	0.0076 17	¹²¹ I(2.12 h)	212.189(84), 532.08(6.07), 598.74(1.47)
1185.7 10	0.6	¹⁵¹ Ho(35.2 s)	527.4(63), 775.53(9.2), 209.5(5.69)
1185.8 3	0.26 5	¹⁰⁰ Y(735 ms)	212.531(73), 118.59(15.4), 665.98(7.7)
1185.8 4	0.37 5	¹⁶¹ Er(3.21 h)	826.6(3.0), 211.15(12.2), 592.6(3.7)
1185.84 14	0.244 12	¹⁷⁴ Ta(1.05 h)	206.50(58), 91.00(16.0), 1205.92(4.9)
1185.99 8	2.5 5	¹⁵⁸ Eu(45.9 m)	944.09(25), 977.131(13.6), 79.5104(11)
1186.0 10	0.11 3	⁶⁴ Ga(2.630 m)	991.52(43), 807.86(13.65), 3365.86(13.1)
1186 2	$\dagger 12.5$	¹⁰⁷ Sn(2.90 m)	1129.2($\dagger 100$), 678.5($\dagger 100$), 1540.6($\dagger 30$)
1186	$\dagger 0.06$ 1	¹³⁶ Pm(107 s)	373.8($\dagger 100$), 602.7($\dagger 38.4$), 857.2($\dagger 23.4$)
1186.0	0.030 7	¹⁵¹ Nd(12.44 m)	116.80(43.4), 255.68(16.4), 1180.89(14.8)
1186.06 18	0.00072 10	¹⁶¹ Gd(3.66 m)	360.94(0.59), 314.92(22.7), 102.315(13.9)
1186.1 3	0.38 8	¹⁶⁰ Tm(74.5 s)	264.1(9), 125.8(6.5), 375.8(2.4)

• $t_{1/2} > 1$ d