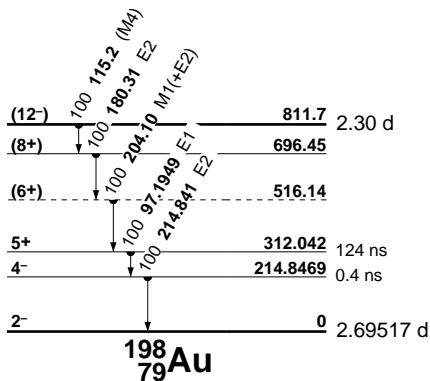


¹⁹⁸₇₉Au (Continued)

1272.0 2, 3 ⁻ , [GJK]	1410. 1, [D]
1286.1 1, 0 ⁻ , 3 ⁻ , [GJK]	1417.6 6, 2 ⁺ , 3 ⁺ , [GJK]
1289. 1, 2, [D]	1424.5 4, ⁻ , [GJK]
1292.4 2, 1 ⁻ , 2 ⁻ , [GJK]	1431.6 5, ⁻ , [GJK]
1296.8 5, [K]	1435.2 2, ⁻ , [GJK]
1301.5 2, 1 ⁻ , 2 ⁻ , [GJK]	1443.6 4, ⁻ , [GJK]
1305.7 7, [JK]	1450.5 4, [K]
1307.3 5, 3 ⁻ , [GJ]	1452.7 2, ⁻ , [GJ]
1318.3 2, 1 ⁻ , 2 ⁻ , [GJK]	1459.4 2, 3 ⁻ , [GJ]
1326.5 4, ⁻ , [GJK]	1471.7 5, 3 ⁻ , [GJK]
1334.8 5, 3 ⁻ , [DGJK]	1476.0 2, 1 ⁻ , 2 ⁻ , [GJK]
1338.3 5, 3 ⁻ , [GJ]	1487.4 2, [GJK]
1359.4 2, ⁻ , [GJK]	1496.7 2, 3 ⁻ , [GJK]
1363.6 2, 3 ⁻ , [DGJK]	1505.4 2, 1 ⁻ , 2 ⁻ , [GJK]
1371.3 2, 1 ⁻ , 2 ⁻ , [GJK]	1513.6 2, 1 ⁻ , [DGJK]
1376.7 4, 1 ⁻ , 2 ⁻ , [GJK]	1523.2 10, 1 ⁺ , 2 ⁺ , 3 ⁺ , [GJ]
1380.9 5, 0 ⁻ , 3 ⁻ , [GJK]	1530.1 2, 1 ⁻ , 2 ⁻ , [GJ]
1390.0 5, 0 ⁻ , [GJ]	1532.69 18, [K]
1395.8 5, 3 ⁻ , [GJK]	1536.4 4, ⁻ , [GJ]
1399.8 6, [K]	1539. 1, 2, 3, [D]
1403.4 5, 1 ⁻ , 2 ⁻ , 3 ⁻ , [GJK]	1542.1 4, 3 ⁻ , [GJK]
1405.9 11, 1 ⁻ , 2 ⁻ , 3 ⁻ , [G]	1553.8 4, 1 ⁻ , 2 ⁻ , [DGJK]
1409.5 6, 3 ⁻ , [GJK]	1560.0 4, 3 ⁻ , [GJK]
	1780. 1, 2, 3, [D]

γ from ¹⁹⁸Au (2.30 d) IT decay < for Iγ% multiply by 0.771 >
 97.21 5 (†90.0 40) E1, 115.2 15 (†0.050 1) (M4), 180.31 5 (†84.1 50) E2,
 204.10 6 (†65.4 40) M1(+E2): δ=-0.10 5, 214.89 5 (†100) E2, 333.82 15 (u).
 γ(¹⁹⁸Hg) from ¹⁹⁸Au (2.69517 d) β⁻ decay < for Iγ% multiply by 0.9558 12 >
 411.8044 11 (†100) E2, 675.8874 19 (†0.841 3) M1+E2: δ=+1.07 14,
 1087.6904 29 (†0.1664 21) E2.



¹⁹⁸₈₀Hg

%: 9.97 8
 Δ: -30971 3 S_n: 8484 3 S_v: 7102.2 6 Q_α: 1383.5 9
 σ_γ: 2.0 3 b, σ_γ(to 532.5): 0.018 4 b

Populating Reactions and Decay Modes

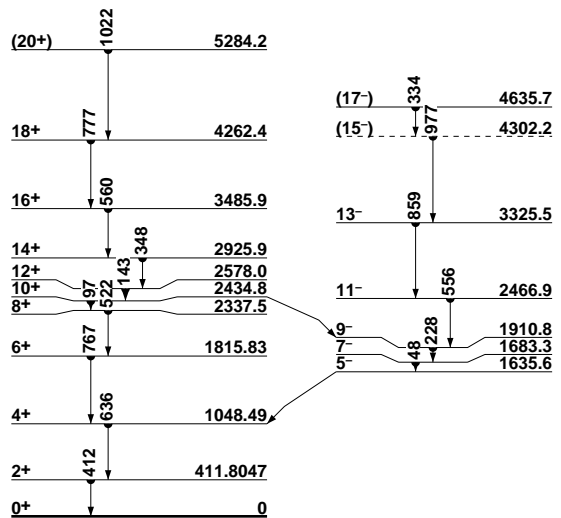
A ¹⁹⁸Au β⁻ decay (2.69517 d) (48Sa36, 49Dz20, 49La06, 49Le07, 49Sa18, 49Si19, 49St17, 50Hi56, 50Pr63, 51Br52, 51Ca06, 51Ca24, 51Hu18, 52Fa14, 52Hu01, 52Mu45, 52Si25, 53Sc19, 53Sc23, 54El04, 54Ma19, 55Bi24, 55Dz41, 55El11, 56Co28, 56Sh37, 56Vo20, 57Be58, 57Ca06, 58Al97, 58Ba33, 58Be80, 58Bo72, 58Bo90, 58Ge34, 58He38, 58Ka01, 58Re22, 59Ke20, 59Wa17, 60Al30, 60Be11, 60De15, 60De17, 60Si01, 60Sp06, 60Sp10, 60St14, 61Av01, 61Bu18, 61De03, 61De05, 61Ha11, 61Hu12, 61Pe07, 61So01, 61Sp09, 61U01, 61Wo02, 62Ha25, 62Lo03, 62Pe12, 63Le11, 63Mu05, 64Bi10, 64He19, 64Je04, 64Ka17, 64Ke02, 64Ko15, 64Le09, 64Le16, 64Pa20, 64Sa11, 64Th08, 64Va13, 65Be07, 65Be24, 65De18, 65Ke04, 65LeZz, 65Mu03, 65Pa08, 65Pe05, 65Ra07, 65Wa13, 66Pa01, 66Uh01, 66Va06, 67Ko13, 67Ra28, 67VaZz, 68Bo38, 68De30, 68Mu02, 69KrZX, 69MaZU, 69Sa31, 69Za02, 70Bo38, 70Pr10, 70Sm08, 71He20, 71Pa06, 72Dr02, 72Na22, 72Sa34, 72Sc43, 72Ve03, 73Bo01, 73Di15, 73El10, 73Ha08, 73Pa08, 73Ra35, 74Do01, 74HeYw, 74Ka18, 74Kr23, 74Ku16, 75Ca15, 75Ma30, 76Bo16, 80Ba14, 80Da16, 80De40, 80Lw03, 80Ni06, 80SaZy, 81Ch35, 82HoZj, 83LoZv, 84Ha12, 84HaZs, 87Lo07, 89ch45, 91BaZs, 92Ha02)

B ¹⁹⁸Tl EC decay (5.3 h) (53Be79, 54El04, 55Kn34, 56Vo20, 59Ju39, 61Gu02, 64Sa11, 66Vi01, 68Pe13, 69BeZR, 70Du10, 71Be09, 71Pa06, 77Kr04)

C ¹⁹⁸Tl EC decay (1.87 h) (54Mi16, 54Pa19, 56Fi23, 57An55, 60Ju01, 68Pe13, 70Du10, 70To14, 71Be09, 71Pa06)
 D ²⁰²Pb α decay (5.25×10⁴ y) (54Hu61, 79NiZv, 81Na15, 87Sc05)
 E ¹⁹⁶Pt(α,2nγ) (74Ya03, 84Go06)
 F ¹⁹⁷Au(p,γ) (85Ar14)
 G ¹⁹⁷Au(p,fission) (88It01)
 H ¹⁹⁷Au(³He,d) (82Bl21, 83Dj02, 85Si15)
 I ¹⁹⁸Pt(α,4nγ) (57An55, 71Be09, 74Pr13, 77Gu05, 85Ko13)
 J ¹⁹⁸Hg(γ,γ): Res Fluorescence (53Da23, 53Ma27, 54Me55, 55Me41, 58Kn53, 63Fr05, 74Bu13)
 K ¹⁹⁸Hg(n,n'γ) (82Po07)
 L ¹⁹⁸Hg(p,p'γ). (p,p') (80Mo30, 83Ra02, 90Hi07, 90Ho07)
 M ¹⁹⁸Hg(α,α') (81Ba45)
 N Coulomb excitation (56Ba45, 56Da40, 70Ka09, 74Pr13, 77Es02, 79Bo16, 81Gu07, 84Fe08, 86Ko02, 90Ba40)
 O ²⁰⁰Hg(p,t) (74MaZw)

Levels and γ-ray branchings:

0, 0⁺, stable, [ABCDEHIJMN]
 411.8047 11, 2⁺, 23.16 12 ps, [ABCEHIJLN], μ=+1.04 20, Q=+0.68 12 or +0.84 12 γ₀411.8044 11 (†100) E2
 1048.49 12, 4⁺, 1.80 8 ps, [BCEHILN] γ₄₁₂636.4 3 (†100) E2
 1087.6927 19, 2⁺, 2.5 2 ps, [ABEHLN] γ₄₁₂675.8874 19 (†100.0 4) M1+E2: δ=+1.07 14 γ₀1087.6904 29 (†19.8 3) E2
 1401.52 23, 0⁺, [BL] γ₄₁₂989.7 3 (†100) E2 γ₀1401.7 8 (†1.4 3) E0
 1419.41 11, (2)⁺, [BE] γ₁₀₈₈331.6 2 (†21 4) γ₁₀₄₈370.8 3 (†11 2) γ₄₁₂1007.6 3 (†100 10) M1(+E2): δ=+0.04
 1548.49 20, (1, 2⁺), [B] γ₄₁₂1136.8 3 (†100 9) γ₀1548.4 3 (†29 6)
 1612.44 12, 2⁺, [B] γ₁₀₄₈564.0 3 (†3.1 6) γ₄₁₂1200.6 2 (†100 10) M1(+E2): δ=-0.26 5 γ₀1612.5 3 (†9.9 5)
 1635.6 3, 5⁻, 62 11 ps, [BCEIL] γ₁₀₄₈587.2 3 (†100) E1
 1683.3 3, 7⁻, 6.9 2 ns, [CEIL], μ=-0.22 11 γ₁₆₃₆47.74 5 (†100) E2
 1760 15, [H]
 1815.83 22, 6⁺, 1.8 2 ps, [CEHIN] γ₁₀₄₈767.3 2 (†100) E2
 1832.60 17, 2⁺, [B] γ₁₀₈₈745.0 8 (†1.6 7) γ₄₁₂1420.6 3 (†100 11) M1(+E2): δ=-0.18 3 γ₀1832.6 3 (†53 6)
 1834.9 3, 4⁺, [BL] γ₁₀₈₈747.5 8 (†27 16) γ₁₀₄₈786.3 4 (†100 16)
 1847.21 13, (3)⁺, [B] γ₁₆₁₂234.8 2 (†12.8 19) γ₁₀₈₈759.6 3 (†42 4) γ₁₀₄₈798.7 3 (†31 2) γ₄₁₂1435.4 3 (†100 13) M1(+E2): δ=+0.15 5
 1858.89 18, 2⁺, [BL] γ₁₀₈₈771.2 4 (†3.6 5) γ₁₀₄₈810.4 4 (†4.1 8) γ₄₁₂1447.0 3 (†100 11) M1(+E2): δ=-0.20 5 γ₀1859.0 10 (†18 3)
 1899.40 21, 1⁺, 2⁺, [BH] γ₁₄₀₂497.9 3 (†10 1) γ₄₁₂1487.5 5 (†15 7) γ₀1899.3 3 (†100 10)
 1901.51 22, (2)⁺, [B] γ₁₀₄₈853.0 4 (†5.4 14) γ₄₁₂1489.6 3 (†100 12) M1+E2): δ=-0.23 8
 1909.6 4, 6⁻, [C] γ₁₆₈₃226.2 3 (†100 15) M1(+E2): δ=0.50 ⁺²⁹₋₃₈ γ₁₆₃₆274.0 3 (†28 6) M1



¹⁹⁸₈₀Hg