

¹⁹⁴Pb
⁸²Pb

Δ :(-24250) S_n :(10040) S_p :(4100) Q_{EC} :(2720) Q_{α} :473820

Nuclear Bands

- A Oblate band
- B Oblate band
- C Oblate band
- D $\Delta J=1$ band (94Po08,93Me12)
- E $\Delta J=1$ band (94Po08)
- F $\Delta J=1$ band (94Po08,93Me12)
- G $\Delta J=1$ band (93Me12)
- H $\Delta J=1$ band (93Me12)
- I SD-1 band (96BrAA,95Ga10)(90Br10,90Hu10)
- J SD-2 band (94Hu10)
- K SD-3 band? (94Hu10)

Levels and γ -ray branchings:

- 0, 0⁺, 12.0 s m, %EC+% β^+ =100, % α =7.3 $\times 10^{-6}$ 29
- A 930.8 2, 0⁺ γ_0 930.6 4 E0
- 965.35 10, 2⁺ γ_0 965.4 1 (\dagger_{100}) E2
- A 1308.44 13, (2⁺) γ_{965} 343.2 2 (\dagger_{165}) (E0+M1+E2) γ_{931} 377.5 3 ($\dagger_{6.3}$) γ_0 1308.3 2 ($\dagger_{100.5}$) (E2)
- A 1540.43 13, 4⁺ γ_{1308} 231.9 2 ($\dagger_{0.4.2}$) γ_{965} 575.1 1 ($\dagger_{100.2}$) E2
- 1637.2 2, (≤ 4) γ_{965} 671.8 2 (\dagger_{100})
- 1738.9 2, (1, 2⁺) γ_{965} 773.5 3 ($\dagger_{100.50}$) γ_{931} 808.1 3 ($\dagger_{20.15}$) γ_0 1738.9 3 ($\dagger_{30.10}$)
- 1820.54 16, (5⁻), 1.1 2 ns γ_{1540} 280.1 1 (\dagger_{100}) E1
- 2019.3 3, (≤ 4) γ_{1308} 710.9 2 (\dagger_{100})
- A 2135.7 3, (6⁺) γ_{1540} 595.4 3 (\dagger_{100}) E2
- 2241.7 3, (7⁻) γ_{1821} 421.1 2 (\dagger_{100}) E2
- 2407.7 3, (9⁻), 18.3 ns, $\mu=-0.6336$ γ_{2242} 166.0 1 (\dagger_{100}) E2
- 2420.0 3, (8⁻) γ_{2242} 178.5 2 (\dagger_{100}) (M1+E2): $\delta<0.7$
- B 2437.9 3, (8⁺), 17.4 ns γ_{2242} 196.1 2 ($\dagger_{24.2}$) (E1) γ_{2136} 302.4 3 ($\dagger_{100.4}$) E2
- 2502.8 3, (8⁻) γ_{2242} 261.1 2 (\dagger_{100}) (M1)
- 2581.4 3, (10⁺), 17.2 s ns γ_{2408} 173.7 1 (\dagger_{100}) E1
- 2628.6 4, (12⁺), 350 10 ns, $\mu=-2.00424$, $Q=0.493$ γ_{2581} 47.0 3 (\dagger_{100})
- 2646.2 4, (11) γ_{2581} 64.8 3 (?) (\dagger_{100}) D
- 2701.1 4 (?), (9) γ_{2242} 459.4 3 (\dagger_{100}) (Q)
- 2799.9 4, (4 to 8) γ_{2136} 664.2 2 (\dagger_{100})
- 2914.5 4 (?), (9⁻) γ_{2242} 672.8 3 (\dagger_{100}) (Q)
- B 2931.1 4, (9⁺) γ_{2438} 493.2 2 (\dagger_{100})
- C 2933.6 3, (11⁻), 124 10 ns γ_{2629} 305.0 1 ($\dagger_{61.11}$) E1 γ_{2581} 352.2 1 ($\dagger_{100.12}$) E1 γ_{2438} 496 (O)
- 3180.0 5 γ_{2646} 534
- H 3208.2 4, (10⁻) γ_{2420} 788.6 3 (\dagger_{100}) (Q) γ_{2408} 800.0
- H 3272.1 5, (11⁻) γ_{2408} 863.7
- B 3282.6 5, (10⁺) γ_{2931} 351 γ_{2438} 844.5
- C 3475.9 3, (12⁻) γ_{2934} 542.2 1 (\dagger_{100}) M1
- 3561.9 4, (14⁺) γ_{2629} 933.3 1 (\dagger_{100}) E2
- 3610.0 4, (10⁺, 11, 12⁺) γ_{2646} 963 (?) γ_{2629} 982 γ_{2581} 1028
- H 3727.8 5, (12⁻) γ_{3272} 455.0 γ_{3208} 519.8 3 ($\dagger_{100.9}$) (Q)
- B 3771.6 5, (11⁺) γ_{3283} 489 γ_{2931} 841
- C 3840.5 3, (13⁻) γ_{3476} 364.6 1 ($\dagger_{100.4}$) M1 γ_{2934} 907.1 1 ($\dagger_{85.2}$) E2
- H 3849.9 6, (13⁻) γ_{3272} 577.8
- 4003.7 4, (15⁻) γ_{3562} 441.8 1 (\dagger_{100}) E1
- G 4136.9 4, (16⁺) γ_{3562} 575.0 1 (\dagger_{100}) (Q)
- B 4236.3 4, (12⁺) γ_{3772} 465 γ_{3283} 953.0 γ_{2934} 1302.4
- H 4265.8 6, (14⁻) γ_{3850} 416.0 γ_{3728} 538.0
- G 4299.3 5 (?), (17⁺) γ_{4137} 162.4 3 (\dagger_{100}) D
- E 4333.8 4, (12) γ_{4236} 98 γ_{3610} 723 γ_{3476} 858.5 γ_{3180} 1154 γ_{2934} 1400.1 γ_{2646} 1688.1 γ_{2629} 1704.0
- C 4367.1 4, (14⁻) γ_{3841} 526.6 3 (\dagger_{100}) D γ_{3476} 891
- 4376.3 4, (12, 13, 14⁺) γ_{4236} 139 γ_{3841} 537
- 4376.4 5, (16⁻) γ_{4004} 372.7 3 (\dagger_{100}) M1

- H 4409.2 6, (15⁻) γ_{4266} 143.5 3 (\dagger_{100}) γ_{3850} 559.2
- C 4450.3 3, (15⁻) γ_{3841} 609.7 1 (\dagger_{100}) E2
- 4454.4 5 (?), (15) γ_{3562} 892.5 3 (\dagger_{100}) D
- 4478.3 8, (15⁻) γ_{3850} 628.4
- G 4532.2 6, (18⁺) γ_{4299} 232.9 3 (\dagger_{100}) D
- 4601.3 5, (17⁻) γ_{4004} 597.6 3 (\dagger_{100}) (Q)
- E 4637.0 5, (13) $\gamma_{4376.3}$ 261 γ_{4334} 303.1 3 ($\dagger_{100.3}$) D
- H 4693.5 7, (16⁻) γ_{4409} 284.3 3 (\dagger_{100}) (D)
- 4702.6 6, (18⁻) $\gamma_{4376.4}$ 326.1 3 (\dagger_{100}) (Q)
- I 4712.1 20, (6⁺)
- 4750.8 5 (?), (17) γ_{4137} 613.9 3 (\dagger_{100}) D
- 4796.6 5, (18⁺) γ_{4137} 659.7 3 (\dagger_{100}) E2
- E 4800.1 6, (14) γ_{4637} 163.1 3 (\dagger_{100}) D
- G 4820.4 7, (19⁺) γ_{4532} 288.2 3 (\dagger_{100}) (D)
- I 4881.7 20, (8⁺) γ_{4712} 169.6 2 ($\dagger_{0.57.7}$) $I^{(1)}=83.5$, $I^{(2)}=91.1$, $\hbar\omega=0.096$ γ_{2136} 2746.2 ($\dagger_{0.06.2}$)
- D 4965.7 4, (16⁻) γ_{4450} 515.4 1 (\dagger_{100}) D
- H 5055.0 8, (17⁻) γ_{4694} 361.5 3 (\dagger_{100}) (D)
- 5061.8 5 (?), (17⁻) γ_{4004} 1058.1 3 (\dagger_{100})
- D 5085.4 5, (17⁻) γ_{4966} 119.7 3 (\dagger_{100}) (D)
- 5091.4 6, (17⁻) $\gamma_{4376.4}$ 715.0 3 (\dagger_{100}) (D)
- I 5095.2 20, (10⁺), 6.0 22 ps γ_{4882} 213.5 1 ($\dagger_{1.02.10}$) $I^{(1)}=85.1$, $I^{(2)}=93.0$, $\hbar\omega=0.118$
- 5109.7 9, (17⁻) γ_{4478} 631.4
- G 5168.4 7, (20⁺) γ_{4820} 348.0 3 (\dagger_{100}) D
- E 5197.4 6, (15) γ_{4800} 397.4 3 (\dagger_{100}) D
- D 5230.5 6, (18⁻) γ_{5085} 145.1 3 (\dagger_{100}) (D)
- 5258.8 6, (20⁺) γ_{4797} 462.2 3 (\dagger_{100})
- 5329.9 6, (18) γ_{4601} 728.6 3 (\dagger_{100}) (D)
- I 5351.7 20, (12⁺), 2.4 $_{10}^{+14}$ ps γ_{5095} 256.5 1 ($\dagger_{0.98.10}$) $I^{(1)}=86.5$, $I^{(2)}=94.8$, $\hbar\omega=0.139$
- D 5427.6 7, (19⁻) γ_{5231} 197.1 3 (\dagger_{100}) D
- 5465.2 5 (?), (17) γ_{4966} 499.5 3 (\dagger_{100}) D
- G 5542.7 9, (21⁺) γ_{5168} 374.3
- 5551.7 6, (19⁻) γ_{5091} 460.4 3 ($\dagger_{95.27}$) (Q) γ_{4703} 849.1 3 ($\dagger_{100.7}$)
- 5553.1 6, (20⁺) γ_{4797} 756.5 3 ($\dagger_{100.19}$) (Q)
- E 5573.9 6, (16) γ_{5197} 376.7 3 (\dagger_{100}) D γ_{4800} 773.4
- I 5650.4 20, (14⁺), 1.8 $_{7}^{-10}$ ps γ_{5352} 298.7 1 ($\dagger_{1.08.10}$) $I^{(1)}=87.7$, $I^{(2)}=96.6$, $\hbar\omega=0.160$
- D 5687.9 7, (20⁻) γ_{5428} 260.3 3 (\dagger_{100}) (D)
- 5732.4 6, (20⁻) γ_{4703} 1029.8 3 (\dagger_{100}) (E2)
- 5735.9 6 (?), (18) γ_{5465} 270.7 3 (\dagger_{100}) (D)
- 5930.5 7 (?), (20) γ_{5736} 194.6 3 (\dagger_{100}) (Q)
- E 5937.5 7, (17) γ_{5574} 363.7 3 ($\dagger_{100.7}$) (D) γ_{5197} 740.0
- G 5939.5 9, (22) γ_{5543} 396.8 3 (\dagger_{100}) D
- 5983.1 7, (18) γ_{5574} 409.3 3 (\dagger_{100}) (Q)
- I 5990.5 20, (16⁺) γ_{5650} 340.1 1 ($\dagger_{0.95.10}$) $I^{(1)}=88.8$, $I^{(2)}=99.3$, $\hbar\omega=0.180$
- D 6024.5 8, (21⁻) γ_{5688} 336.6 3 (\dagger_{100}) D
- 6139.2 7 (?), (21) γ_{5931} 208.7 3 (\dagger_{100}) D
- F 6198.3 7 (?), (18) γ_{5938} 260.8 3 (\dagger_{100}) (D)
- 6206.5 7, (21⁻) γ_{5552} 654.8 3 (\dagger_{100})
- F 6328.7 8 (?), (19) γ_{6198} 130.4 3 (\dagger_{100}) (D)
- 6331.1 8 γ_{5983} 348.3 γ_{5574} 757 (?)
- I 6370.9 20, (18⁺), >0.5 ps γ_{5991} 380.4 1 ($\dagger_{0.95.10}$) $I^{(1)}=90.0$, $I^{(2)}=101.0$, $\hbar\omega=0.200$
- 6379.4 7, (22⁺) γ_{5553} 826.3 3 (\dagger_{100}) (Q)
- D 6400.5 8, (22⁻) γ_{6025} 376.0 3 (\dagger_{100}) D
- F 6465.7 9, (20) γ_{6329} 137.0 3 (\dagger_{100}) D
- F 6677.9 9, (21) γ_{6466} 212.2 3 (\dagger_{100}) D
- I 6790.9 20, (20⁺), 0.24 $_{14}^{+43}$ ps γ_{6371} 420.0 2 ($\dagger_{0.96.10}$) $I^{(1)}=91.1$, $I^{(2)}=104.2$, $\hbar\omega=0.220$
- D 6817.2 9, (23) γ_{6401} 416.7 3 (\dagger_{100}) D
- F 6905.9 10, (22) γ_{6678} 228.0 3 (\dagger_{100}) (Q)
- F 7173.8 10, (23) γ_{6906} 267.9 3 (\dagger_{100}) (D)

D 7241.3 10, (24) γ_{6817} 424.1
 I 7249.3 20, (22⁺), 0.14⁺¹⁰₋₇ ps γ_{6791} 458.4 1 (τ_{γ} 0.85 10) I⁽¹⁾=92.2, I⁽²⁾=107.0, $\hbar\omega=0.239$
 F 7481.4 11, (24) γ_{7174} 307.8 3 (τ_{γ} 100) D
 I 7745.1 20, (24⁺), 0.13 5 ps γ_{7249} 495.8 1 (τ_{γ} 0.83 10) I⁽¹⁾=93.4, I⁽²⁾=109.0, $\hbar\omega=0.257$
 F 7842.3 11, (25) γ_{7481} 361.6 γ_{7174} 668(?)
 F 8235.7 11, (26) γ_{7842} 393.6 γ_{7481} 754(?)
 I 8277.6 20, (26⁺), 0.08 5 ps γ_{7745} 532.5 2 (τ_{γ} 0.65 10) I⁽¹⁾=94.5, I⁽²⁾=111.7, $\hbar\omega=0.275$
 I 8845.9 20, (28⁺), 0.07 2 ps γ_{8278} 568.3 2 (τ_{γ} 0.50 7) I⁽¹⁾=95.6, I⁽²⁾=114.0, $\hbar\omega=0.293$
 I 9449.3 20, (30⁺) γ_{8846} 603.4 2 (τ_{γ} 0.42 5) I⁽¹⁾=96.7, I⁽²⁾=115.3, $\hbar\omega=0.310$
 I 10087.4 22, (32⁺) γ_{9449} 638.1 4 (τ_{γ} 0.32 5) I⁽¹⁾=97.7, I⁽²⁾=117.0, $\hbar\omega=0.328$
 I 10759.7 22, (34⁺) γ_{10087} 672.3 4 (τ_{γ} 0.20 5) I⁽¹⁾=98.7, I⁽²⁾=118.0, $\hbar\omega=0.345$
 I 11465.9 22, (36⁺) γ_{10760} 706.2 2 (τ_{γ} 0.12 5) I⁽¹⁾=99.6, I⁽²⁾=120.1, $\hbar\omega=0.361$
 I 12205.4 22, (38⁺) γ_{11466} 739.5 4 (τ_{γ} 0.10 5)

J x, J
 J 241.2+x 3, J+2 γ_x 241.2 3 (τ_{γ} 0.036 4) I⁽²⁾=101.5, $\hbar\omega=0.130$
 J 521.8+x 5, J+4 γ_{241+x} 280.6 4 (τ_{γ} 0.096 10) I⁽²⁾=99.8, $\hbar\omega=0.150$
 J 842.5+x 6, J+6 γ_{522+x} 320.7 2 (τ_{γ} 0.052 5) I⁽²⁾=101.8, $\hbar\omega=0.170$
 J 1202.5+x 6, J+8 γ_{843+x} 360.0 2 (τ_{γ} 0.060 6) I⁽²⁾=102.6, $\hbar\omega=0.190$
 J 1601.5+x 7, J+10 γ_{1203+x} 399.0 2 (τ_{γ} 0.071 7) I⁽²⁾=105.8, $\hbar\omega=0.209$
 J 2038.3+x 7, J+12 γ_{1602+x} 436.8 3 (τ_{γ} 0.064 7) I⁽²⁾=107.5, $\hbar\omega=0.228$
 J 2512.3+x 8, J+14 γ_{2038+x} 474.0 3 (τ_{γ} 0.072 8) I⁽²⁾=107.8, $\hbar\omega=0.246$
 J 3023.4+x 9, J+16 γ_{2512+x} 511.1 5 (τ_{γ} 0.051 6) I⁽²⁾=122.3, $\hbar\omega=0.264$
 J 3567.2+x 10, J+18 γ_{3023+x} 543.8 5 (τ_{γ} 0.031 4)
 K y(?), J
 K 260.9+y 4(?), J+2 γ_y 260.9 4 (τ_{γ} 0.057 7) I⁽²⁾=97.3, $\hbar\omega=0.141$
 K 562.9+y 5(?), J+4 γ_{261+y} 302.0 3 (τ_{γ} 0.072 8) I⁽²⁾=101.8, $\hbar\omega=0.161$
 K 904.2+y 6(?), J+6 γ_{563+y} 341.3 3 (τ_{γ} 0.027 4) I⁽²⁾=103.4, $\hbar\omega=0.180$
 K 1284.2+y 8(?), J+8 γ_{904+y} 380.0 5 (τ_{γ} 0.046 6) I⁽²⁾=107.2, $\hbar\omega=0.199$
 K 1701.5+y 9(?), J+10 γ_{1284+y} 417.3 3 (τ_{γ} 0.048 6) I⁽²⁾=103.9, $\hbar\omega=0.218$
 K 2157.3+y 9(?), J+12 γ_{1702+y} 455.8 3 (τ_{γ} 0.063 8) I⁽²⁾=110.2, $\hbar\omega=0.237$
 K 2649.4+y 10(?), J+14 γ_{2157+y} 492.1 4 (τ_{γ} 0.082 10) I⁽²⁾=109.6, $\hbar\omega=0.255$
 K 3178.0+y 12(?), J+16 γ_{2649+y} 528.6 8 (τ_{γ} 0.044 6) I⁽²⁾=115.6, $\hbar\omega=0.273$
 K 3741.2+y 15(?), J+18 γ_{3178+y} 563.2 8 (τ_{γ} 0.069 9)

