

⁸²Y
³⁹Y 43

S_n: 1.025x10⁴12, S_p: 3.96x10³10

Nuclear Bands

- A Band structure, (π,α)=(+,1)
- B Band structure, (π,α)=(+,0)
- C Band structure, (π,α)=(-,1)
- D Band structure, (π,α)=(-,0)
- E Band structure
- F Band structure
- G SD band (π=-,α=0) (1995Da30)

β₂ ≈ 0.55

Levels and γ-ray branchings:

- 0, 1⁺, 9.5₃ s, %ε+%β⁺=100
- 142.34₇, 2⁺, γ₀142.3₁(100) D
- 250.19₉, 2⁺, γ_{142.34}107.9₂(294), γ₀250.2₁(100) D
- 313.69₈, 3⁺, γ_{250.19}63.7₃(4618), γ_{142.34}171.4₁(1004) D, γ₀313.7₁(866) Q
- 337.00₁₀, 3⁺, γ_{142.34}194.6₁(1004) D, γ₀337.1₂(496) Q
- 401.10₉, 4⁺, *I*₁28 ns, γ_{337.00}64.3₃(3117), γ_{313.69}87.5₁(1004), γ_{142.34}258.7₁(≈ 7)
- D 402.64₁₃, 4⁻, 268₂₅ ns, γ_{337.00}65.7₂(1009), γ_{313.69}88.9₂(756)
- 405.79₂₄, 4⁻, 35.4₂₁ ns, γ_{337.00}68.2₃(100)
- E 473.89₁₆, (5⁻), γ_{405.79}67.5₃(100)
- B 507.52₁₂, 6⁺, 1477 ns, γ_{401.10}106.4₁(100) E2
- C 511.90₁₄, 5⁻, γ_{402.64}109.2₁(100)
- E 586.65₁₅, (6⁻), γ_{511.90}74.2₂(1007), γ_{473.89}112.4₂(437)
- 594.71₁₄, (6⁺), γ_{401.10}193.7₁(100)
- D 677.98₁₄, 6⁻, γ_{586.65}91.1₁(81), γ_{511.90}166.2₂(819), γ_{507.52}170.7₂(10013), γ_{473.89}204.1₁(639), γ_{402.64}275.4₁(569) (Q)
- A 718.87₁₄, 7⁺, γ_{507.52}211.3₁(100) D
- B 751.50₁₄, 8⁺, γ_{718.87}32.6₃(185), γ_{507.52}243.9₁(100) Q
- F 818.26₁₉, (6⁻), γ_{677.98}140.0₂(5712), γ_{511.90}306.6₂(4514), γ_{473.89}344.5₃(10018)
- C 957.00₁₄, 7⁻, γ_{718.87}238.1₂(162), γ_{677.98}279.0₂(284) (D), γ_{586.65}370.3₂(333), γ_{511.90}445.1₁(1006) Q, γ_{507.52}449.6₂(343)
- A 1146.95₁₆, 9⁺, γ_{751.50}395.5₁(1001) D, γ_{718.87}428.0₂(3.15)
- E 1163.43₂₀, (7⁻), γ_{586.65}576.8₂(10020), γ_{511.90}651.5₂(10020)
- D 1272.27₁₆, 8⁻, γ_{957.00}315.3₂(9.05), γ_{677.98}594.3₁(1002) Q
- 1284.12₁₇, (8⁺), γ_{751.50}532.3₂(353), γ_{718.87}565.2₂(1002), γ_{594.71}690.8₄(93), γ_{507.52}776.7₃(985)
- F 1506.8₄, (8⁻), γ_{818.26}688.5₃(100)
- 1557.20₂₅, (9⁺), γ_{1284.12}273.1₂(138), γ_{718.87}838.2₅(1008)
- B 1589.74₁₆, 10⁺, γ_{1146.95}442.6₂(112) D, γ_{751.50}838.2₁(1001) Q
- C 1687.79₁₇, 9⁻, γ_{957.00}730.8₁(1002) Q, γ_{751.50}936.2₃(17.63)
- A 1960.07₁₇, 11⁺, 0.42₁₀ ps, γ_{1589.74}370.2₁(971) D, γ_{1146.95}813.2₁(1002) (E2)
- E 1963.7₄, (9⁻), γ_{1163.43}800.3₃
- D 2061.57₁₈, 10⁻, γ_{1272.27}789.3₁(1002) Q, γ_{1146.95}914.5₃(172)
- F 2379.1₆, (10⁻), γ_{1506.8}872.3₄(100)
- C 2602.20₂₀, 11⁻, 0.31₅ ps, γ_{1687.79}914.4₁(100) E2
- B 2651.21₁₉, 12⁺, 0.28₄₃₅ ps, γ_{1960.07}691.1₉(211) D, γ_{1589.74}1061.5₁(1002) E2
- A 2970.9₃, 13⁺, 0.23₆₂₈ ps, γ_{2651.21}320.3₄(5310) M1, γ_{1960.07}1010.5₃(10013) E2
- D 3026.2₄, 12⁻, γ_{2061.57}964.6₃(100) Q
- C 3675.00₂₂, 13⁻, 0.16₆₂₁ ps, γ_{2602.20}1072.8₁(100) (E2)
- B 3904.02₂₂, 14⁺, γ_{2651.21}1252.8₁(100) Q
- A 4142.7₃, 15⁺, 0.13₂₁₄ ps, γ_{2970.9}1171.8₁(100) E2
- D 4150.2₄, 14⁻, γ_{3026.2}1124.0₁(100) Q
- C 4886.0₄, 15⁻, <0.26 ps, γ_{3675.00}1211.0₃(100) (E2)
- B 5250.0₃, 16⁺, γ_{3904.02}1346.0₂(100) Q
- D 5414.6₅, 16⁻, γ_{4150.2}1264.4₂(100) Q
- A 5456.3₅, 17⁺, 0.08₃₁₄ ps, γ_{4142.7}1313.6₃(100) E2
- C 6222.7₅(?), (17⁻), γ_{4886.0}1336.7₃(100) (Q)(?)
- B 6672.1₅, 18⁺, γ_{5250.0}1422.1₄(100) (Q)
- D 6777.4₅, (18⁻), γ_{5414.6}1362.8₂(100)
- A 6914.5₆, 19⁺, <0.21 ps, γ_{5456.3}1458.2₃(100) (E2)
- C 7591.2₁₀(?), (19⁻), γ_{6222.7}1368.5₈(100)(?)

- D 8187.7₆, (20⁻), γ_{6777.4}1410.3₄(100)
- B 8194.2₆, 20⁺, γ_{6672.1}1522.0₃(100) (Q)
- A 8515.9₆, 21⁺, γ_{6914.5}1601.3₂(100) (Q)
- D 9680.0₁₀, (22⁻), γ_{8187.7}1492.3₈(100)
- B 9861.0₇, 22⁺, γ_{8194.2}1666.8₄(100) (Q)
- A 10267.3₇, (23⁺), γ_{8515.9}1751.4₄(100)
- B 11712.8₁₁, (24⁺), γ_{9861.0}1851.8₈(100)
- A 12219.4₈, (25⁺), γ_{10267.3}1952.1₄(100)
- B 13785.5₁₂, (26⁺), γ_{11712.8}2072.7₄(100)
- A 14416.2₁₂, (27⁺), γ_{12219.4}2196.8₈(100)
- G x, J ≈ (20)
- G 1455+x, J + 2, γ_x1455₂(0.40₇)
- G 3061+x, J + 4, γ_{1455+x}1606₂(0.65₈)
- G 4835+x, J + 6, γ_{3061+x}1774₂(1.0₁)
- G 6771+x, J + 8, γ_{4835+x}1936₂(1.0₁)
- G 8870+x, J + 10, γ_{6771+x}2099₂(1.0₁)
- G 11133+x, J + 12, γ_{8870+x}2263₂(1.0₁)
- G 13554+x, J + 14, γ_{11133+x}2421₂(0.65₈)
- G 16136+x, J + 16, γ_{13554+x}2582₂(0.35₅)
- G 18891+x(?), J + 18, γ_{16136+x}2755₂(0.13₅)

See Phys. Rev. C51, 1181 (1995); Phys. Rev. C51, 2959 (1995); Phys. Rev. C53, 1541 (1996) for additional data.

