

⁹¹Tc₄₈

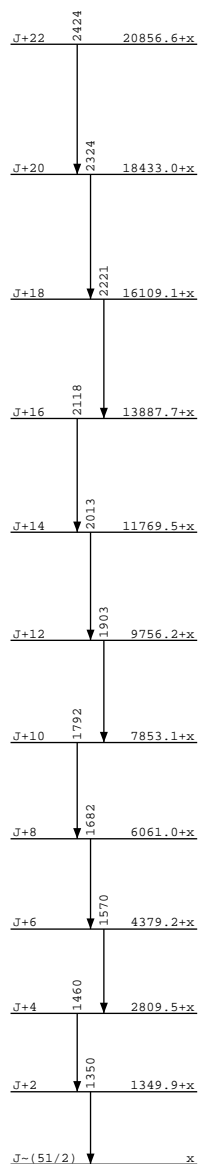
S_n: 12.85x10³₃₁, S_p: 3.11x10³₂₀

Nuclear Bands

- A Seniority=3 states
 - B Seniority=3 states
 - C Seniority=3 states
 - D Seniority=3 states
 - E Seniority=3 states
 - F Seniority=3 states
 - G Seniority=3 states
 - H SD band (2000ld01)
- Q₀=8.1¹⁹₁₄

Levels and γ-ray branchings:

- 0, (9/2)⁺, 3.14₂ min, %ε+%β⁺=100, %IT<1
- 139.3₃, (1/2)⁻, 3.3₁ min, %ε+%β⁺=100, %IT<1
- 394.51₉, (7/2)⁺, γ₀394.51(100) M1+E2 δ = -0.7₁₃⁴
- E 884.90₁₇, (5/2)⁻, γ_{139.3}745.6₂(100) (E2)
- 892.90₈, (13/2⁺), γ₀892.9₁(100) (E2)
- 1097.10₇, (11/2⁺), γ_{892.90}204.3₁(22.6₇), γ_{394.51}702.1₃(5.3₂₁), γ₀1097.1₁(100.0₁₉) (M1+E2) δ = +0.04₇
- 1532.62₁₀, (11/2⁺), γ_{1097.10}435.4₂(12₄), γ_{394.51}1138.3₂(47.8₂₂), γ₀1532.6₂(100₄) (M1+E2) δ = -1.1₉
- 1555.80₁₃, (9/2)⁻, γ_{884.90}670.9₁(100₃₃) (E2), γ₀1555.9₄(100₁₃)
- 1821.33₁₀, (17/2⁺), γ_{892.90}928.4₁(100) (E2)
- 1943.10₉, (13/2)⁻, γ_{1555.80}387.3₁(30₃) (E2), γ_{1532.62}410.5₁(97.6₂₄) (E1+M2) δ = -0.01₈, γ_{1097.10}846.1₁(100.0₂₄) (E1+M2) δ = +0.06₇, γ_{892.90}1050.0₂(30.6₂₀)
- 2044.84₉, (15/2⁺), γ_{1821.33}223.6₁(82.6₂₂) (M1+E2), γ_{1097.10}947.7₁(68.5₂₂) (E2), γ_{892.90}1151.9₁(100.0₂₂) (M1+E2) δ = -0.25₆
- A 2137.17₁₃, (21/2⁺), I.85₃ ns, γ_{1821.33}315.8₁(100)
- E 2153.01₁₀, (17/2)⁻, I.07₆ ns, γ_{2044.84}108.2₁(100.0₉) (E1+M2), γ_{1943.10}210.0₁(< 85), γ_{1821.33}331.6₁(28.5₆) (E1+M2) δ = +0.2₆
- A 2767.58₁₄, (23/2⁺), <0.7 ps, γ_{2137.17}630.3₁(100) (M1+E2) δ = -0.05₂
- F 2980.57₁₃, (21/2)⁻, 3.3₇ ps, γ_{2153.01}827.6₁(100₃) E2, γ_{2137.17}843.3₄(0.80₂₀)
- A 3135.90₁₅, (25/2⁺), <0.7 ps, γ_{2767.58}368.3₁(100₃) (M1+E2) δ = -0.03₁, γ_{2137.17}998.5₂(4.7₇)
- A 3345.43₁₅, (25/2⁺), I.2₉ ps, γ_{3135.90}210.1₂(9.7₁₀), γ_{2767.58}577.7₁(100.0₁₇) (M1+E2) δ = -0.04₄, γ_{2137.17}1208.4₁(36.6₁₂) E2
- F 3804.37₁₅, (25/2)⁻, 4.6₅ ps, γ_{2980.57}823.8₁(100.0₈) E2, γ_{2767.58}1036.9₂(2.94₂₀)
- 4080.36₁₆, (25/2)⁻, 3.5₁₀ ps, γ_{3804.37}276.0₁(100₈) (M1), γ_{3135.90}944.2₂(25₆), γ_{2980.57}1100.0₃(25₁₁)
- B 4119.30₁₆, (27/2⁺), <I.4 ps, γ_{3345.43}774.0₁(100.0₁₁) (M1+E2) δ = -0.07₄, γ_{2767.58}1351.9₃(5.0₆)
- B 4354.52₁₅, (29/2⁺), I.5₄ ps, γ_{4119.30}235.3₁(43.5₆) (M1+E2), γ_{3345.43}1009.1₁(9.2₃) E2, γ_{3135.90}1218.5₁(100.0₁₁) E2
- 4594.89₁₆, (27/2)⁻, <0.7 ps, γ_{4080.36}514.5₁(50.7₁₁) (M1+E2) δ = -0.04₈, γ_{3804.37}790.6₁(100.0₁₄) (M1+E2) δ = -0.04₇, γ_{3135.90}1459.2₇(2.4₁₀)
- F 4703.13₁₇, (29/2)⁻, γ_{3804.37}898.7₁(100) (E2)
- B 4750.22₁₈, (29/2⁺), γ_{4354.52}395.7₂(58₁₇), γ_{4119.30}630₁(≈ 125), γ_{3135.90}1613.8₃(100₃₃)
- F 4935.73₁₇, (29/2)⁻, <0.7 ps, γ_{4703.13}232.4₂(1.5₄), γ_{4594.89}340.9₁(100₅) (M1+E2) δ = -0.05₇
- F 5077.93₁₈, (31/2)⁻, 3.3₃ ps, γ_{4935.73}142.2₁(100.0₉) (M1+E2), γ_{4703.13}374.8₁(59.2₆) (M1+E2) δ = -0.01₆
- B 5090.56₁₇, (31/2⁺), <I.4 ps, γ_{4750.22}340.3₁(10.0₁₀) (M1+E2), γ_{4354.52}736.0₁(100₄) (M1+E2) δ = -0.02₃, γ_{4119.30}972.0₃(5.5₁₀)
- B 5268.10₁₇, (33/2⁺), 6.4₄ ps, γ_{5090.56}177.6₁(73.8₇) (M1+E2), γ_{4354.52}913.6₁(100.0₁₁) E2
- 5382.90₁₉, (31/2⁺), γ_{4354.52}1028.4₂(100) (M1+E2)
- F 5567.13₁₉, (33/2)⁻, <0.7 ps, γ_{5077.93}489.2₁(100₄) (M1+E2) δ = -0.02₆, γ_{4703.13}864.0₃(3.2₁₁)
- 5776.12₁₉, (33/2⁺), γ_{5382.90}393.1₂(80₂₀), γ_{5090.56}685.9₂(100₂₀) (M1+E2)
- B 5933.67₁₈, (35/2⁺), 0.49₃₅³⁵ ps, γ_{5776.12}157.6₁(2.9₆), γ_{5268.10}665.5₁(100₄) (M1+E2) δ = -0.01₆
- G 6158.73₂₀, (35/2)⁻, I.46₂₁ ps, γ_{5567.13}591.6₁(84.8₁₀) (M1+E2) δ = -0.01₆, γ_{5077.93}1080.8₁(100.0₁₄) E2
- 6192.16₁₈, (33/2⁺), γ_{5933.67}257.8₃(20₇), γ_{5382.90}809.3₁(93₇) (M1+E2), γ_{5268.10}924.2₁(100₁₀) (M1+E2), γ_{5090.56}1101.1₂(57₁₃), γ_{4750.22}1441.6₄(43₇), γ_{4354.52}1837.4₃(93₁₀) (E2)
- B 6452.35₂₁, (37/2⁺), 0.8₆ ps, γ_{5933.67}518.7₁(100) (M1+E2) δ = 0.00₇
- G 6615.81₂₂, (37/2)⁻, 0.83₁₄ ps, γ_{6158.73}457.1₁(100₃) (M1+E2) δ = -0.08₄, γ_{5567.13}1048.7₃(5.0₁₂)
- 6690.8₇, γ_{5077.93}1613.0₈(100)
- 6843.07₁₉, (35/2⁺), γ_{6192.16}650.9₁(100₆) (M1+E2), γ_{5268.10}1575.1₆(8₃)
- B 7292.85₂₀, (37/2⁺), γ_{6843.07}449.8₁(100.0₂₃) (M1+E2), γ_{6192.16}1100.4₃(36₁₀), γ_{5933.67}1359.2₂(47.7₂₃)
- G 7505.03₂₃, (39/2)⁻, γ_{6615.81}889.2₁(100₄) (M1+E2) δ = -0.07₅, γ_{6158.73}1345.6₅(1.5₅)
- C 7667.99₂₂, (37/2⁺), γ_{6192.16}1475.6₃(100₄), γ_{5268.10}2399.8₅(67₄)
- G 7716.17₂₃, (41/2)⁻, 0.83₂₁ ps, γ_{7505.03}211.1₁(100₄) (M1+E2), γ_{6615.81}1100.4₁(28.9₂₁) E2
- 7992.7₄, γ_{6690.8}1302.2₁₀(53₂₆), γ_{6158.73}1833.9₄(100₁₆)
- C 8141.22₂₁, (39/2⁺), γ_{7667.99}473.2₁(100₅) (M1+E2), γ_{7292.85}848.5₂(100₅) (M1+E2), γ_{6843.07}1297.9₃(66₅) (E2), γ_{6452.35}1689.0₃(43₅) (M1+E2), γ_{5933.67}2207.7₃(89₅) (E2)
- C 8276.58₂₃, (39/2⁺), γ_{7292.85}983.5₃(100₁₀), γ_{6452.35}1824.4₄(48₁₀), γ_{5933.67}2343.2₁₀(19₅)
- C 8392.3₁₁, (41/2⁺), 0.37₄ ps, γ_{6452.35}1939.9₁₀(100) E2
- 8559.0₅, γ_{7992.7}566.3₂(100₁₅), γ_{6615.81}1943.0₇(20₅)
- C 8835.89₂₂, (41/2⁺), 4.0₄ ps, γ_{8276.58}559.3₁(16.7₇) (M1+E2), γ_{8141.22}694.7₁(100.0₁₄) (M1+E2) δ = -0.01₇, γ_{7292.85}1542.6₅(4.3₇), γ_{6452.35}2383.6₅(8.0₇)
- 9008.7₁₁, (41/2⁺), γ_{6452.35}2556.3₁(100)
- C 9299.78₂₄, (43/2⁺), 0.9₄ ps, γ_{9008.7}289.9₁(10.0₅), γ_{8835.89}463.9₁(100.0₁₅) (M1+E2) δ = +0.08₅, γ_{8141.22}1158.5₃(4.5₅)
- G 9717.0₂₁, (45/2)⁻, γ_{7716.17}2000.8₂₀(100) (E2)
- D 10166.7₁₇, (45/2⁺), 0.44₃ ps, γ_{8392.3}1774.4₁₃(100) E2
- 10388.0₁₁, (43/2⁻, 45/2⁻), γ_{7716.17}2671.8₁(100)
- D 10505.4₃, (47/2⁺), I.8₄ ps, γ_{9299.78}1205.6₁(100) E2
- 10843.5₁₁, (43/2⁻, 45/2⁻), γ_{7716.17}3127.3₁(100)
- 12172.5₂₃, (47/2⁻, 49/2⁻), γ_{9717.0}2455.5
- D 12225.1₂₄, γ_{10166.7}2058.4₁₇(100)
- H x, J ≈ (51/2)
- H 1349.9+x, J + 2, γ_x1349.9₅(0.25₃)
- H 2809.5+x, J + 4, γ_{1349.9+x}1459.6₄(0.99₅)
- H 4379.2+x, J + 6, γ_{2809.5+x}1569.7₄(1.00₅)
- H 6061.0+x, J + 8, γ_{4379.2+x}1681.7₄(1.05₅)
- H 7853.1+x, J + 10, γ_{6061.0+x}1792.1₄(0.93₅)
- H 9756.2+x, J + 12, γ_{7853.1+x}1903.1₄(1.00₅)
- H 11769.5+x, J + 14, γ_{9756.2+x}2013.3₄(0.95₅)
- H 13887.7+x, J + 16, γ_{11769.5+x}2118.2₄(0.89₅)
- H 16109.1+x, J + 18, γ_{13887.7+x}2221.3₅(0.61₄)
- H 18433.0+x, J + 20, γ_{16109.1+x}2323.9₅(0.37₃)
- H 20856.6+x, J + 22, γ_{18433.0+x}2423.6₆(0.21₃)



SD band
(2000ld01)

${}^{91}_{43}\text{Tc}_{48}$