

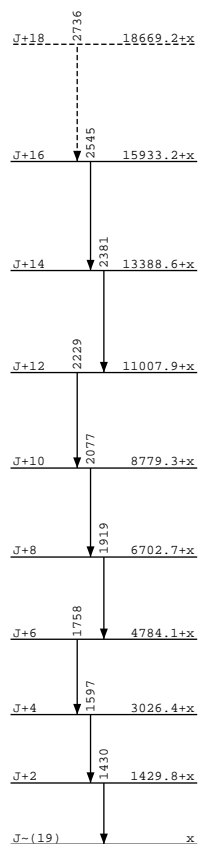
82
38Sr₄₄S_n: 12554 9, S_p: 7841 8

Nuclear Bands

- A Band structure
 B Band structure
 C Band structure
 D Band structure
 E Band structure, π=, yrast odd spin
 F Band structure, π=, yrare odd spin
 G Band structure
 H Band structure, π=, yrast even spin
 I Band structure, π=, yrare even spin
 J SD band (1995Sm08, 1998Yu01, 1999Le56)
 Q₀=3.54¹⁵₁₄

Levels and γ-ray branchings:

- C **0**, 0⁺, 25.55₁₅ d, %ε=100
 C **573.54**₈, 2⁺, 8.9₄ ps, γ₀ **573.64**₁₀(100) E2
 B **1175.71**₈, 2⁺, 7.5₂₄ ps, γ_{573.54} **602.15**₁₀(100)⁷
 M1(+E2) δ = +1.2₁₄, γ₀ **1175.6**₁(10.4₈)
1310.89₁₃, 0⁺, < 3.5 ns, γ_{573.54} **737.35**₁₀(100)
 C **1328.54**₁₀, 4⁺, 1.0₂ ps, γ_{573.54} **754.9**₁(100) E2
 A **1688.96**₁₁, 3⁺, γ_{1328.54} **359.9**₃(9₃), γ_{1175.71} **512.9**₂(80₁₂),
 γ_{573.54} **1115.8**₂(100₁₅)
1865₅, 2⁺
 B **1996.02**₁₀, 4⁺, 1.3₄ ps, γ_{1328.54} **667.53**₁₀(60₉) M1(+E2) δ = +0.3₇,
 γ_{1175.71} **820.25**₁₀(100₁₂) E2, γ_{573.54} **1422.4**₃(5₂)
2195₅, 2⁺
 C **2229.47**₁₁, 6⁺, 0.37¹⁵₁₁ ps, γ_{1328.54} **900.84**₁₀(100) E2
 E **2401.82**₁₀, 3⁻, γ_{1688.96} **712.4**₁(100₈), γ_{573.54} **1828.4**₁(29₈)
 A **2525.80**₁₂, 5⁺, γ_{1996.02} **529.8**₂(13₄), γ_{1688.96} **837.1**₁(100₂₂),
 γ_{1328.54} **1197.1**₂(21₆)
2665₅, 0⁺
 E **2817.31**₁₁, 5⁻, 3.0₆ ps, μ=+1.5₂₀, γ_{2401.82} **415.17**₁₀(13₁₃),
 γ_{1328.54} **1489.00**₁₀(100₁₃) E1
 I **2824.40**₁₂, 4⁻, γ_{2401.82} **422.6**₃(7₂), γ_{1996.02} **828.4**₂(16₄),
 γ_{1688.96} **1135.5**₁₀(100₁₃) E1(+M2) δ = +0.03₅,
 γ_{1328.54} **1494.9**₃(5₂)
 B **2836.26**₁₂, 6⁺, 0.6₄ ps, γ_{2229.47} **606.65**₁₀(50₃) M1(+E2) δ = +0.2₃,
 γ_{1996.02} **840.24**₁₀(100₈) E2
2885₅, (2⁺)
2920₅
 H **3006.91**₁₂, 4⁻, γ_{2401.82} **605.1**₁(60₂₀), γ_{1996.02} **1010.7**₂(20₁₀),
 γ_{1688.96} **1318.3**₃(100₂₀), γ_{1328.54} **1677.6**₄(40₁₀)
 F **3073.28**₁₄, (5⁻), γ_{2817.31} **255.4**₃(7₇), γ_{2229.47} **843.6**₂(64₁₄),
 γ_{1996.02} **1077.4**₂(100₂₁)
 I **3086.23**₁₂, 6⁻, γ_{2824.40} **261.83**₁₀(100₉), γ_{2817.31} **269.02**₁₀(78₉),
 γ_{2525.80} **560.8**₂(22₄)
 G **3142.30**₂₂, (5⁻), γ_{1328.54} **1812.8**₄(100)
 C **3242.82**₁₂, 8⁺, 0.24¹⁰₆ ps, μ=+5.6₈, γ_{2229.47} **1013.36**₁₀(400) E2
 H **3339.57**₁₂, 6⁻, γ_{3073.28} **266.2**₄(4₁), γ_{3006.91} **332.5**₃(8₂),
 γ_{2817.31} **522.1**₁(100₁₂), γ_{2525.80} **813.9**₁(16₃), γ_{2229.47} **1110.3**₂(16₃)
 A **3476.96**₁₅, 7⁺, γ_{2525.80} **951.15**₁₀(100)
3511.15₁₃, (7⁻), γ_{3086.23} **424**(?), γ_{2817.31} **694.04**₁₀(100⁷) E2,
 γ_{2229.47} **1281.1**₂(4.6₈)
 E **3525.75**₁₂, 7⁻, γ_{3086.23} **439.88**₁₀(8₂), γ_{3073.28} **451.9**₃(4₁),
 γ_{2817.31} **707.9**₂(7₂), γ_{2229.47} **1296.19**₁₀(100₁₂) D+Q δ = +0.5₅
 F **3565.75**₁₃, 7⁻, γ_{3086.23} **479.3**₂(17₆), γ_{3073.28} **492.7**₄(1₁),
 γ_{2817.31} **748.3**₂(14₁), γ_{2229.47} **1336.5**₂(100₁₃)
 G **3607.94**₁₃, 7⁻, γ_{3142.30} **465.4**₂(30₈), γ_{3086.23} **521.5**₂(100₁₄)
 (M1+E2) δ = -0.7₅, γ_{3073.28} **534.6**₂(3₈), γ_{2836.26} **771.8**₂(68₆₈),
 γ_{2817.31} **790.6**₂(32₈), γ_{2229.47} **1378.6**₂(73₁₉)
 B **3622.78**₁₂, 8⁺, 0.7₄ ps, μ=+5.6₈, γ_{3242.82} **379.96**₁₀(8.8₉),
 γ_{2836.26} **786.36**₁₀(100⁷) E2, γ_{2229.47} **1393.5**₁(18₆)
 D **3686.07**₁₅, (8⁺), γ_{3242.82} **443.28**₁₀(100₁₅), γ_{2229.47} **1456.2**₃(36₁₁)
 H **4033.49**₁₅, 8⁻, γ_{3525.75} **507.9**₃(8₂), γ_{3339.57} **693.9**₁(100₂₂)
 I **4142.60**₁₄, 8⁻, γ_{3607.94} **534.7**₂(26₈), γ_{3565.75} **577.0**₂(31₈),
 γ_{3525.75} **617.1**₄(8₃), γ_{3086.23} **1056.3**₁(100₂₃) E2
4248.4₁₀, γ_{3242.82} **1005.6**₁(100)
 C **4350.30**₁₅, 10⁺, 0.14⁶₆ ps, γ_{3242.82} **1107.47**₁₀(100) (E2)
 E **4366.82**₁₄, 9⁻, γ_{3607.94} **758.8**₁(30₃), γ_{3565.75} **801.11**₁₀(100₈) (E2),
 γ_{3525.75} **841.3**₃(32₄)
4387.09₁₄, (9⁻), γ_{3511.15} **876.0**₁(100₁₈) (E2),
 γ_{3242.82} **1144.20**₁₀(88⁷)
 B **4423.85**₁₄, (10⁺), 0.9₂ ps, μ=+11₅, γ_{3622.78} **801.11**₁₀(100₁₂) (E2),
 γ_{3242.82} **1180.98**₁₀(16₂)
 F **4472.85**₁₄, 9⁻, γ_{3565.75} **907.0**₁(62₈), γ_{3525.75} **947.2**₂(44₄),
 γ_{3242.82} **1230.3**₂(100₈)
 A **4492.54**, 9⁺, γ_{3476.96} **1015.5**₃(100)
 D **4637.34**₁₈, (10⁺), γ_{4423.85} **213.5**₃(10₃), γ_{4350.30} **287.0**₂(38₇),
 γ_{3686.07} **951.2**₂(100₁₀), γ_{3242.82} **1394.7**₃(72₁₀)
 H **4909.39**₁₈, 10⁻, 0.36¹¹₈ ps, γ_{4387.09} **521.7**(?), γ_{4033.49} **875.9**₁(100) E2
 I **5237.4**₁₇, 11⁻, γ_{4142.60} **1094.8**₃(100)
 E **5308.15**₁₇, 11⁻, γ_{4366.82} **941.32**₁₀(100) E2
5333.8₁₅, γ_{4248.4} **1085.4**₁(100)
5392.31₁₈(?), γ_{4387.09} **1005.43**₁₀(100)(?)
 B **5427.12**₁₇, 12⁺, 0.33¹¹₈ ps, γ_{4423.85} **1003.26**₁₀(100) E2
5468.9₁₀, γ_{4423.85} **1045**₁(100)
 F **5479.09**₂₅, (11⁻), γ_{4472.85} **1006.2**₃(100⁷), γ_{4350.30} **1128.8**₃(62₄)
 C **5569.04**, 12⁺, 0.06₆ ps, γ_{4350.30} **1218.7**₃(100)
 D **5738.2**₅, (12⁺), γ_{4637.34} **1100.9**₄(100)
 H **5913.94**, 12⁻, 0.27¹¹₈ ps, γ_{4909.39} **1004.5**₃(100) E2
 E **6367.2**₃, 13⁻, γ_{5308.15} **1059.0**₂(100) E2
6450.1₁₁, γ_{5427.12} **1023**₁(100)
 B **6543.64**, 14⁺, 0.25¹¹₆ ps, γ_{5427.12} **1116.5**₃(100) E2
6556.4₁₈, γ_{5333.8} **1222.6**₁(100)
 F **6564.84**, (13⁻), γ_{5479.09} **1085.7**₃(100)
 C **6937.0**₅, (14⁺), 0.04⁶₃ ps, γ_{5569.0} **1368.0**₃(100)
 H **7066.5**₅, 14⁻, 0.08⁵₄ ps, γ_{5913.9} **1152.6**₃(100) E2
7534.6₁₁, γ_{6543.6} **991**₁(100)
 E **7545.54**, 15⁻, 0.12₅ ps, γ_{6367.2} **1178.3**₃(100) E2
 F **7788.2**₅, (15⁻), γ_{6564.8} **1223.4**₃(100)
 B **7812.0**₆, 16⁺, 0.09⁵₄ ps, γ_{6543.6} **1268.4**₄(100) E2
7936.1₂₀, γ_{6556.4} **1379.6**₁(100)
 H **8377.6**₆, 16⁻, 0.14₆ ps, γ_{7066.5} **1311.1**₄(100) E2
 C **8434.6**₆, (16⁺), < 0.18 ps, γ_{6937.0} **1497.6**₃(100) E2
 E **8842.0**₇, 17⁻, 0.08₆ ps, γ_{7545.5} **1296.5**₅(100) E2
 F **9167.4**₇, (17⁻), γ_{7788.2} **1379.2**₄(100)
 B **9237.8**₇, 18⁺, 0.05⁴₄ ps, γ_{7812.0} **1425.7**₄(100)
9478.1₂₃, γ_{7936.1} **1542**₁(100)
 H **9842.6**₁₂, (18⁻), < 0.19 ps, γ_{8377.6} **1465**₁(100)
10061.6₁₂, (18⁺), γ_{8434.6} **1626.9**₁(100)
 E **10258.8**₉, (19⁻), 0.08⁶₄ ps, γ_{8842.0} **1416.8**₅(100)
 F **10709.4**₁₂, (19⁻), γ_{9167.4} **1542**₁(100)
 B **10872.4**₉, (20⁺), < 0.21 ps, γ_{9237.8} **1634.6**₅(100)
 H **11379.6**₁₆, (20⁻), γ_{9842.6} **1537**₁(100)
 E **11798.4**₁₀, (21⁻), < 0.06 ps, γ_{10258.8} **1539.6**₅(100)
11837.6₁₆(?), (20⁺), γ_{10061.6} **1776**₁(100)
12758.8₁₃, (22⁺), γ_{10872.4} **1886.4**₁(100)
 H **13005.7**₁₉, (22⁻), γ_{11379.6} **1626**₁(100)
 E **13489.4**₁₄, (23⁻), γ_{11798.4} **1691**₁(100)
14832.7₂₁(?), (24), γ_{13005.7} **1827**₁(100)
14910.8₁₇, (24⁺), γ_{12758.8} **2152**₁(100)
15409.4₁₇, (25), γ_{13489.4} **1920**₁(100)
17246.9₂₀(?), (26⁻), γ_{14910.8} **2336**₁(100)
17616.5₂₀, (27), γ_{15409.4} **2207**₁(100)
 J x, J ≈ (19)
 J **1429.8+x**, J + 2, γ_x **1429.8**(0.60₇)
 J **3026.4+x**, J + 4, γ_{1429.8+x} **1596.6**(0.65₇)
 J **4784.1+x**, J + 6, γ_{3026.4+x} **1757.7**(0.83₇)
 J **6702.7+x**, J + 8, γ_{4784.1+x} **1918.6**(1.00₇)
 J **8779.3+x**, J + 10, γ_{6702.7+x} **2076.6**(1.00₇)
 J **11007.9+x**, J + 12, γ_{8779.3+x} **2228.6**(1.00₇)
 J **13388.6+x**, J + 14, γ_{11007.9+x} **2380.7**(0.80₇)
 J **15933.2+x**, J + 16, γ_{13388.6+x} **2544.6**(0.50₇)
 J **18669.2+x**(?), J + 18, γ_{15933.2+x} **2736**(0.25₃)(?)



SD band
(1995Sm08.1998Yu01)

$^{82}_{38}\text{Sr}_{44}$