

84
40Zr

Δ :(-71500) S_n :(13100) S_p :(6500) Q_{EC} :(2700)

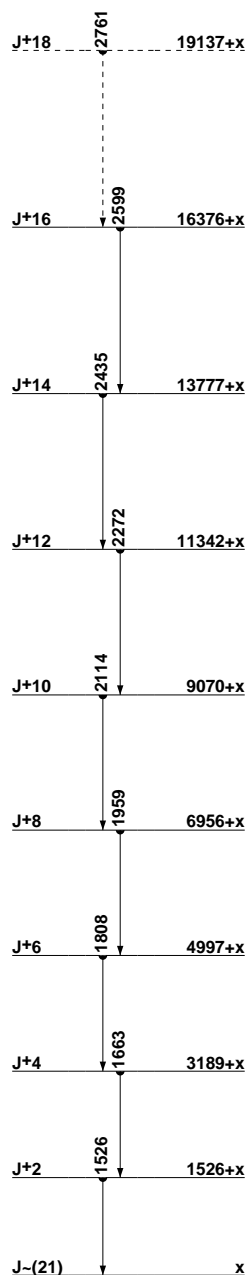
Nuclear Bands

- A GS band
- B Band Structure
- C Band Structure
- D Band Structure
- E SD band (95Ji08)

Levels and γ -ray branchings:

- A 0, 0⁺, 25.9 8 m, %EC+% β^+ =100
- A 540.0 5, (2⁺), 14.1 8 ps γ_{540} 540.0 5 (\dagger_{γ} 100) (E2)
- B 1119.1, (2⁺) γ_{540} 579.1 (M1+E2): $\delta=-0.03$ 1 γ_0 1119.1
- A 1263.0, (4⁺), 2.8 4 ps γ_{540} 723.0 5 (\dagger_{γ} 100) (E2)
- 1514.2 γ_{1263} 251.2 (\dagger_{γ} 100)
- B 1575.2, (4⁺) γ_{1119} 456.1 (\dagger_{γ} 17 9) (E2) γ_{540} 1035.2 (\dagger_{γ} 100 9) (E2)
- 1676.3 γ_{1263} 414.0 (\dagger_{γ} 100) (E2)
- 1842.2 γ_{1575} 267.0 (\dagger_{γ} 100)
- A 2136.2, (6⁺), 1.8 3 ps γ_{1263} 873.2 (\dagger_{γ} 100) (E2)
- B 2335.6, (6⁺) γ_{1575} 760.4 (E2) γ_{1263} 1072.0(?)
- C 2825.0, (5⁻), 10.9 35 ps γ_{1263} 1562.0 (\dagger_{γ} 100) (E1+M2): $\delta=+0.05$ 4
- 2890.2 γ_{2136} 754.0 (\dagger_{γ} 100)
- A 3088.2, (8⁺), 1.4 3 ps γ_{2136} 952.0 (\dagger_{γ} 100)
- B 3202.8, (8⁺) γ_{2336} 867.2 (\dagger_{γ} 100) (E2)
- D 3313.3, (6⁻) γ_{2825} 488.3 (\dagger_{γ} 100) (M1+E2): $\delta=+0.06$ 2
- C 3493.2, (7⁻), 5.4 21 ps γ_{2825} 668.2 (\dagger_{γ} 50 17) (E2) γ_{2136} 1357.0 (\dagger_{γ} 100 33)
- (E1+M2): $\delta=+0.06$ 1
- D 4036.3, (8⁻) γ_{3493} 543.1 γ_{3313} 723.0
- A 4067.4, (10⁺), 1.0 2 ps γ_{3088} 979.2 (\dagger_{γ} 100) (E2)
- B 4138.9, (10⁺) γ_{3203} 936.1 (\dagger_{γ} 100) (E2)
- C 4378.3, (9⁻) γ_{3493} 885.1 (\dagger_{γ} 100) (E2)
- D 4868.4, (10⁻) γ_{4036} 832.1 (\dagger_{γ} 100) (E2)
- A 5134.5, (12⁺), 0.62 14 ps γ_{4067} 1067.1 (\dagger_{γ} 100) (E2)
- B 5149.7, (12⁺) γ_{4139} 1010.8 (\dagger_{γ} 100)
- C 5315.8, (11⁻) γ_{4378} 937.5 (\dagger_{γ} 100)
- D 5784.0, (12⁻) γ_{4868} 915.6 (\dagger_{γ} 100)
- A 6300.3, (14⁺), 0.35 3 ps γ_{5135} 1165.8 (\dagger_{γ} 100)
- C 6322.0, (13⁻) γ_{5316} 1006.2 (\dagger_{γ} 100)
- D 6795.0, (14⁻) γ_{5784} 1011.0 (\dagger_{γ} 100)
- C 7409.3, (15⁻) γ_{6322} 1087.3 (\dagger_{γ} 100)
- A 7496.5, (16⁺), 0.125 14 ps γ_{6300} 1196.2 (\dagger_{γ} 100)
- D 7928.1, (16⁻) γ_{6795} 1133.0 (\dagger_{γ} 100)
- C 8606.2, (17⁻) γ_{7409} 1196.8 (\dagger_{γ} 100)
- A 8741.7, (18⁺), 0.111 7 ps γ_{7497} 1245.1 (\dagger_{γ} 100)
- D 9191.5, (18⁻) γ_{7928} 1263.4 (\dagger_{γ} 100)
- C 9866.3, (19⁻) γ_{8606} 1260.1 (\dagger_{γ} 100)
- A 10174.6, (20⁺), 0.021 7 ps γ_{8742} 1432.9 (\dagger_{γ} 100)
- D 10592.1, (20⁻) γ_{9192} 1400.6 (\dagger_{γ} 100)
- C 11193.3, (21⁻) γ_{9866} 1327.0 (\dagger_{γ} 100)
- A 11815.5, (22⁺), 0.014 7 ps γ_{10175} 1640.9 (\dagger_{γ} 100)
- A 13657.2, (24⁺), <0.007 ps γ_{11816} 1841.7 (\dagger_{γ} 100)
- A 15642.7, (26⁺) γ_{13657} 1985.5 (\dagger_{γ} 100)
- A 17801, (28⁺) γ_{15643} 2158 (\dagger_{γ} 100)
- A 20095, (30⁺) γ_{17801} 2294 (\dagger_{γ} 100)
- A 22580(?), (32⁺) γ_{20095} 2485(?) (\dagger_{γ} 100)
- A 25241(?), (34⁺) γ_{22580} 2661(?) (\dagger_{γ} 100)
- E x, J=(21)
- E 1526+x, J+2 γ_x 1526 1 (\dagger_{γ} 0.55 5) $I^{(1)}=28.8$, $I^{(2)}=29.2$, $\hbar\omega=0.797$
- E 3189+x, J+4 γ_{1526+x} 1663 1 (\dagger_{γ} 1.00 5) $I^{(1)}=28.8$, $I^{(2)}=27.6$, $\hbar\omega=0.868$
- E 4997+x, J+6 γ_{3189+x} 1808 1 (\dagger_{γ} 1.00 5) $I^{(1)}=28.7$, $I^{(2)}=26.5$, $\hbar\omega=0.942$
- E 6956+x, J+8 γ_{4997+x} 1959 1 (\dagger_{γ} 1.00 5) $I^{(1)}=28.5$, $I^{(2)}=25.8$, $\hbar\omega=1.018$
- E 9070+x, J+10 γ_{6956+x} 2114 1 (\dagger_{γ} 1.00 5) $I^{(1)}=28.3$, $I^{(2)}=25.3$, $\hbar\omega=1.097$

- E 11342+x, J+12 γ_{9070+x} 2272 1 (\dagger_{γ} 0.90 5) $I^{(1)}=28.0$, $I^{(2)}=24.5$, $\hbar\omega=1.177$
- E 13777+x, J+14 $\gamma_{11342+x}$ 2435 1 (\dagger_{γ} 0.5 1) $I^{(1)}=27.8$, $I^{(2)}=24.4$, $\hbar\omega=1.259$
- E 16376+x, J+16 $\gamma_{13777+x}$ 2599 1 (\dagger_{γ} 0.3 1) $I^{(1)}=27.6$, $I^{(2)}=24.7$, $\hbar\omega=1.340$
- E 19137+x(?), J+18 $\gamma_{16376+x}$ 2761 1(?) (\dagger_{γ} 0.06 5)



SD band
(95Ji08)
84
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