$^{151}_{65}$Tb

Δ: −71633 5 S_n: 8590 9 S_p: 3151 7 Q_{EC}: 2565 4 Q_α: 3496 4

Nuclear Bands

- *A* $\pi h_{11/2}$ + (^{150}Gd)0^+
- *B* $\pi h_{11/2}$ + (^{150}Gd)3^-
- *C* SD-1 band (89Fa02,93Cu06,95Kh06)
- *D* SD-2 band (90By01,93Cu06,95Kh06)
- *E* SD-3 band (95Kh06)
- *F* SD-4 band (95Kh06)
- *G* SD-5 band (94De33)
- *H* SD-6 band (94De33)
- *I* SD-7 band (94De33)
- *J* SD-8 band (94De33)

Levels and γ-ray branchings:

0, 1/2(+), 17.609 1 h, %EC+%β+=100, %α=9.5×10^{-3} 15

22.922 20, 3/2(+), 4.05 7 ns γ_0**22.92** 2 ($\dagger_\gamma$100) M1+E2: δ=0.031 4

72.39 3, (5/2+), 0.92 3 ns γ_{23}**49.46** 2 ($\dagger_\gamma$100 1) M1+E2: δ=0.06 2 γ_0**72.50** 10 ($\dagger_\gamma$0.5 1) (E2)

A **99.54** 6, (11/2−), 25 3 s, %IT=93.8 4, %EC+%β+=6.2 4 γ_{72}**27.1** 1 E3

248.79 3, (5/2+,7/2+), <0.26 ns γ_{72}**176.40** 1 ($\dagger_\gamma$100 2) M1+E2: δ=0.51 17 γ_{23}**226.3** 3 ($\dagger_\gamma$2.3 5) M1,E2

276.42 4 γ_{72}**204.03** 2 ($\dagger_\gamma$100)

485.64 5, (7/2−) γ_{100}**386.10** 2 ($\dagger_\gamma$100 2) E2 γ_{72}**413.27** 13 ($\dagger_\gamma$2.1 2)

548.85 5, (3/2+,5/2+,7/2+) γ_{276}**272.43** 23 ($\dagger_\gamma$4.0 10) γ_{249}**300.00** 16 ($\dagger_\gamma$2.9 4) γ_{72}**476.56** 10 ($\dagger_\gamma$100 2) M1

583.98 6, (5/2) γ_{276}**307.48** 8 ($\dagger_\gamma$36 3) γ_{23}**561.00** 10 ($\dagger_\gamma$78 6) γ_0**583.9** 1 ($\dagger_\gamma$100 5)

646.02 5, (9/2−) γ_{486}**160.40** 2 ($\dagger_\gamma$2.7 2) γ_{100}**546.31** 10 ($\dagger_\gamma$100 2) M1

686.70 7 γ_{72}**614.30** 10 ($\dagger_\gamma$61 4) γ_{23}**663.67** 10 ($\dagger_\gamma$100 5)

A **703.8** 1, (15/2−) γ_{100}**604.3** 1 ($\dagger_\gamma$100) (E2)

711.93 5 γ_{549}**163.04** 4 ($\dagger_\gamma$7.2 17) γ_{249}**463.20** 10 ($\dagger_\gamma$95 2) M1(+E2): δ<0.82 γ_{72}**639.50** 10 ($\dagger_\gamma$54 4) γ_{23}**689.17** 10 ($\dagger_\gamma$100 2) γ_0**712.00** 20 ($\dagger_\gamma$<47)

841.11 9 γ_{549}**292.16** 10 ($\dagger_\gamma$42 4) γ_{72}**768.90** 20 ($\dagger_\gamma$100 5) γ_{23}**818.6** 3 ($\dagger_\gamma$40 8)

856.81 7 γ_{486}**371.07** 5 ($\dagger_\gamma$35.0 20) γ_{276}**580.4** 3 ($\dagger_\gamma$9.4 24) γ_{72}**784.5** 6 ($\dagger_\gamma$4.7 16) γ_{23}**833.9** 2 ($\dagger_\gamma$100 5)

886.43 7 γ_{549}**337.80** 10 ($\dagger_\gamma$48 4) γ_{72}**814.10** 10 ($\dagger_\gamma$100 9)

887.5 1, (13/2−) γ_{704}**183.9** 2 ($\dagger_\gamma$7.0 7) γ_{100}**788.0** 2 ($\dagger_\gamma$100 5) (M1+E2)

917.78 7, (5/2−,7/2−) γ_{687}**230.90** 13 ($\dagger_\gamma$12.9 15) γ_{584}**333.17** 26 ($\dagger_\gamma$4.7 11) γ_{486}**432.16** 10 ($\dagger_\gamma$100 3) M1 γ_{276}**642.2** 6 ($\dagger_\gamma$4.7 15) γ_{72}**845.46** 10 ($\dagger_\gamma$49.8 24)

949.07 6 γ_{646}**303.00** 5 ($\dagger_\gamma$75.4 24) γ_{549}**400.67** 16 ($\dagger_\gamma$16.4 24) γ_{249}**700.32** 10 ($\dagger_\gamma$100 4) γ_{23}**926.0** 5 ($\dagger_\gamma$26 3)

1082.61 6, (7/2−) γ_{646}**436.86** 10 ($\dagger_\gamma$25.0 14) M1 γ_{549}**533.66** 18 ($\dagger_\gamma$9.4 14) γ_{486}**596.77** 10 ($\dagger_\gamma$51.4 20) γ_{72}**1010.4** 3 ($\dagger_\gamma$100 3)

B **1096.6** 1, (15/2+) γ_{888}**209.1** 1 ($\dagger_\gamma$58 3) γ_{704}**392.8** 1 ($\dagger_\gamma$100 5) E1

1119.38 8 γ_{549}**570.70** 10 ($\dagger_\gamma$79.6 25) γ_{249}**870.36** 10 ($\dagger_\gamma$100 6) γ_{100}**1020.4** 3 ($\dagger_\gamma$60 3)

1202.10 11 γ_{857}**345.13** 16 ($\dagger_\gamma$10.3 19) γ_{646}**556.40** 23 ($\dagger_\gamma$13.3 23) γ_{549}**653.20** 20 ($\dagger_\gamma$27.0 23) γ_{72}**1129.8** 3 ($\dagger_\gamma$100 4)

1241.21 10, (7/2−,9/2−) γ_{486}**755.57** 10 ($\dagger_\gamma$100 4) γ_{249}**992.37** 22 ($\dagger_\gamma$10.7 17) γ_{100}**1141.8** 3 ($\dagger_\gamma$99 7)

1319.4 3 γ_{249}**1070.6** 3 ($\dagger_\gamma$100)

A **1319.7** 1, (19/2−) γ_{704}**615.8** 1 ($\dagger_\gamma$100) E2

1433.86 8 γ_{918}**515.9** 5 ($\dagger_\gamma$13 8) γ_{646}**788.07** 10 ($\dagger_\gamma$95 6) γ_{584}**849.60** 10 ($\dagger_\gamma$100 7) γ_{249}**1185.6** 3 ($\dagger_\gamma$51 7) γ_{100}**1334.3** 3 ($\dagger_\gamma$49 4)

1526.9 4 γ_{704}**823.2** 3 ($\dagger_\gamma$100)

1582.29 12 γ_{646}**936.27** 10 ($\dagger_\gamma$100)

1611.09 12 γ_{1083}**528.40** 16 ($\dagger_\gamma$12.3 26) γ_{549}**1062.5** 3 ($\dagger_\gamma$51 5) γ_{249}**1361.9** 3 ($\dagger_\gamma$12.3 18) γ_{72}**1538.1** 3 ($\dagger_\gamma$100 3) γ_0**1611.0** 3 ($\dagger_\gamma$7.9 26)

1629.66 8 γ_{949}**680.41** 10 ($\dagger_\gamma$46.8 21) γ_{918}**712.00** 20 ($\dagger_\gamma$58 3) γ_{646}**983.73** 10 ($\dagger_\gamma$100) γ_{486}**1144.1** 3 ($\dagger_\gamma$20 5) γ_{249}**1381.2** 3 ($\dagger_\gamma$18.1 21) γ_{100}**1530.2** 3 ($\dagger_\gamma$40.1 17)

1663.18 11 γ_{918}**745.40** 10 ($\dagger_\gamma$45.6 23) γ_{549}**1114.3** 3 ($\dagger_\gamma$100 4)

B **1693.6** 1, (19/2+) γ_{1097}**597.0** 2 ($\dagger_\gamma$100) (E2)

1724.46 15, (5/2−) γ_{886}**837.9** 5 ($\dagger_\gamma$4.4 15) γ_{549}**1175.5** 3 ($\dagger_\gamma$21.9 15) γ_{249}**1475.7** 3 ($\dagger_\gamma$46.8 19) γ_{72}**1652.1** 3 ($\dagger_\gamma$31.4 9) γ_{23}**1701.6** 3 ($\dagger_\gamma$100 3)

1741.78 8 γ_{949}**793.08** 10 ($\dagger_\gamma$29.1 25) γ_{857}**884.62** 10 ($\dagger_\gamma$37 3) γ_{712}**1029.4** 3 ($\dagger_\gamma$21.2 25) γ_{646}**1096.1** 3 ($\dagger_\gamma$100 3) γ_{486}**1256.1** 3 ($\dagger_\gamma$62 3) γ_{249}**1493.3** 3 ($\dagger_\gamma$15.8 25) γ_{23}**1718.4** 5 ($\dagger_\gamma$7 3)

1773.74 10 γ_{918}**855.84** 10 ($\dagger_\gamma$87 5) γ_{857}**917.00** 10 ($\dagger_\gamma$58 6) γ_{841}**932.5** 10 ($\dagger_\gamma$19 4) γ_{584}**1190.6** 3 ($\dagger_\gamma$28 4) γ_{486}**1288.2** 3 ($\dagger_\gamma$53 3) γ_{249}**1525.1** 3 ($\dagger_\gamma$100 4)

1841.63 11 γ_{949}**891.92** 20 ($\dagger_\gamma$27.0 23) γ_{841}**1000.4** 3 ($\dagger_\gamma$5.7 17) γ_{712}**1129.8** 3 ($\dagger_\gamma$88 3) γ_{646}**1196.8** 3 ($\dagger_\gamma$36.3 23) γ_{486}**1355.5** 3 ($\dagger_\gamma$12.6 13) γ_{249}**1593.1** 3 ($\dagger_\gamma$100 3) γ_{72}**1769.7** 3 ($\dagger_\gamma$12.0 6)

A **2002.2** 1, (23/2−) γ_{1320}**682.5** 1 ($\dagger_\gamma$100) E2

2045.8 2, (21/2+) γ_{1694}**352.6** 3 ($\dagger_\gamma$28 9) γ_{1319}**726.0** 2 ($\dagger_\gamma$100 14)

2120.5 2, (23/2−) γ_{1319}**800.3** 4 ($\dagger_\gamma$100)

2180.7 2, (25/2−) γ_{2121}**59.7** γ_{2002}**178.5** 1 ($\dagger_\gamma$100 7) M1,E2

B **2220.0** 1, (23/2+) γ_{1694}**526.5** 1 ($\dagger_\gamma$100) (E2)

2375.4 1, (27/2−) γ_{2181}**194.8** 1 ($\dagger_\gamma$100) M1,E2

2468.8 1, (25/2+) γ_{2220}**248.8** 1 ($\dagger_\gamma$100 5) (M1,E2) γ_{2181}**288.4** 4 ($\dagger_\gamma$9 4) γ_{2121}**348.1** 4 ($\dagger_\gamma$7.9 18) γ_{2046}**423.5** 4 ($\dagger_\gamma$13 4) γ_{2002}**466.0** 2 ($\dagger_\gamma$3.9 7)

B **2782.7** 1, (27/2+) γ_{2469}**313.9** 3(?) ($\dagger_\gamma$7.5) γ_{2220}**562.7** 1 ($\dagger_\gamma$100 2) E2

2847.4 1, (29/2+) γ_{2783}**64.8** 3 ($\dagger_\gamma$25) (M1) γ_{2469}**378.6** 1 ($\dagger_\gamma$100 5) γ_{2375}**472.2** 2 ($\dagger_\gamma$56 6)

3108.4 4(?) γ_{2783}**325.7** 3(?) ($\dagger_\gamma$100)

3115.8 2, (31/2+) γ_{2847}**268.4** 1 ($\dagger_\gamma$100) M1,E2

3128.8 2, (31/2−) γ_{2375}**753.4** 2 ($\dagger_\gamma$100)

3159.2 3(?), (29/2−) γ_{2181}**978.5** 3(?) ($\dagger_\gamma$100)

3196.6 3, (31/2+) γ_{2847}**348.6** 4 ($\dagger_\gamma$100)

3274.1 2, (33/2+) γ_{3197}**77.5** γ_{3129}**146.0** 4 ($\dagger_\gamma$1.34 14) γ_{3116}**158.3** 1 ($\dagger_\gamma$100 5)

3287.8 3(?) γ_{2847}**440.4** 3(?) ($\dagger_\gamma$100)

3808.5 2, (35/2−) γ_{3129}**679.7** 1 ($\dagger_\gamma$100)

3900.8 2, (35/2+) γ_{3116}**784.9** 2 ($\dagger_\gamma$100)

4148.2 2, (37/2+) γ_{3901}**247.4** 1 ($\dagger_\gamma$16 2) γ_{3809}**339.8** 4 ($\dagger_\gamma$1.8 2) γ_{3274}**874.0** 1 ($\dagger_\gamma$100 5)

4565.0 2, (39/2+) γ_{3901}**664.1** 1 ($\dagger_\gamma$100)

4765.6 3, (39/2−) γ_{3809}**957.0** 4 ($\dagger_\gamma$100)

4774.1 2, (41/2+) γ_{4565}**209.0** 2 ($\dagger_\gamma$40 2) γ_{4148}**626.0** 1 ($\dagger_\gamma$100 5)

4840.4 2, (39/2−) γ_{3809}**1031.7** 2 ($\dagger_\gamma$100)

5034.3 3, (41/2−) γ_{4148}**886.0** 4 ($\dagger_\gamma$100)

5162.6 2, (45/2+) γ_{4774}**388.5** 1 ($\dagger_\gamma$100)

5363.8 3 γ_{4766}**598.2** 4 ($\dagger_\gamma$100)

5467.3 2, (43/2−) γ_{4840}**627.0** 2 ($\dagger_\gamma$100)

5475.0 2, (43/2−) γ_{5034}**440.5** 4 ($\dagger_\gamma$16 2) γ_{4840}**634.0** 4 ($\dagger_\gamma$16 8) γ_{4774}**701.1** 2 ($\dagger_\gamma$100 10)

5656.6 4 γ_{4766}**891.0** 4 ($\dagger_\gamma$100)

5819.0 2, (45/2−) γ_{5475}**343.9** 4 ($\dagger_\gamma$100 33) γ_{5467}**351.5** 4 ($\dagger_\gamma$33 16)

5924.9 2, (45/2−) γ_{5467}**457.5** 3 ($\dagger_\gamma$100 10) γ_{5364}**561.0** 4 ($\dagger_\gamma$13 2)

5985.6 2, (47/2−) γ_{5819}**166.6** 4 ($\dagger_\gamma$11 6) γ_{5475}**510.5** 4 ($\dagger_\gamma$18 10) γ_{5163}**822.7** 2 ($\dagger_\gamma$100 10)

6165.6 2, (49/2−) γ_{5925}**240.7** 3 ($\dagger_\gamma$100 24) γ_{5819}**346.4** 4 ($\dagger_\gamma$35 23)

6170.2 3, (49/2−) γ_{5925}**245.3** 4 ($\dagger_\gamma$100 10) γ_{5819}**351.1** 4 ($\dagger_\gamma$100 50)

6485.2 2, (49/2+) γ_{5163}**1322.6** 1 ($\dagger_\gamma$100)

6594.3 2, (51/2−) γ_{6170}**423.9** 4 ($\dagger_\gamma$8 2) γ_{6166}**428.7** 2 ($\dagger_\gamma$100 10)

6674.1 3(?), (49/2−) γ_{5819}**855.1** 4(?) ($\dagger_\gamma$100)

6880.4 2, (51/2−) γ_{6674}**206.3** 4 ($\dagger_\gamma$4 1) γ_{5986}**894.8** 1 ($\dagger_\gamma$100 10)

7248.5 2, (53/2−) γ_{6880}**368.2** 1 ($\dagger_\gamma$100 10) γ_{6594}**654.6** 4 ($\dagger_\gamma$24 3)

7264.8 2, (53/2+) γ_{6594}**670.8** 4 ($\dagger_\gamma$0.9 1) γ_{6485}**779.6** 1 ($\dagger_\gamma$100 5)

7296.2 2, (53/2−) γ_{6880}**416.3** 4 ($\dagger_\gamma$100 38) γ_{6594}**700.7** 4 ($\dagger_\gamma$100 13)

7304.5 2, (53/2+) γ_{6594}**710.4** 4 ($\dagger_\gamma$3.8 4) γ_{6485}**819.1** 1 ($\dagger_\gamma$100 5)

7619.1 3, (55/2+) γ_{7296}**322.3** 4 ($\dagger_\gamma$100)

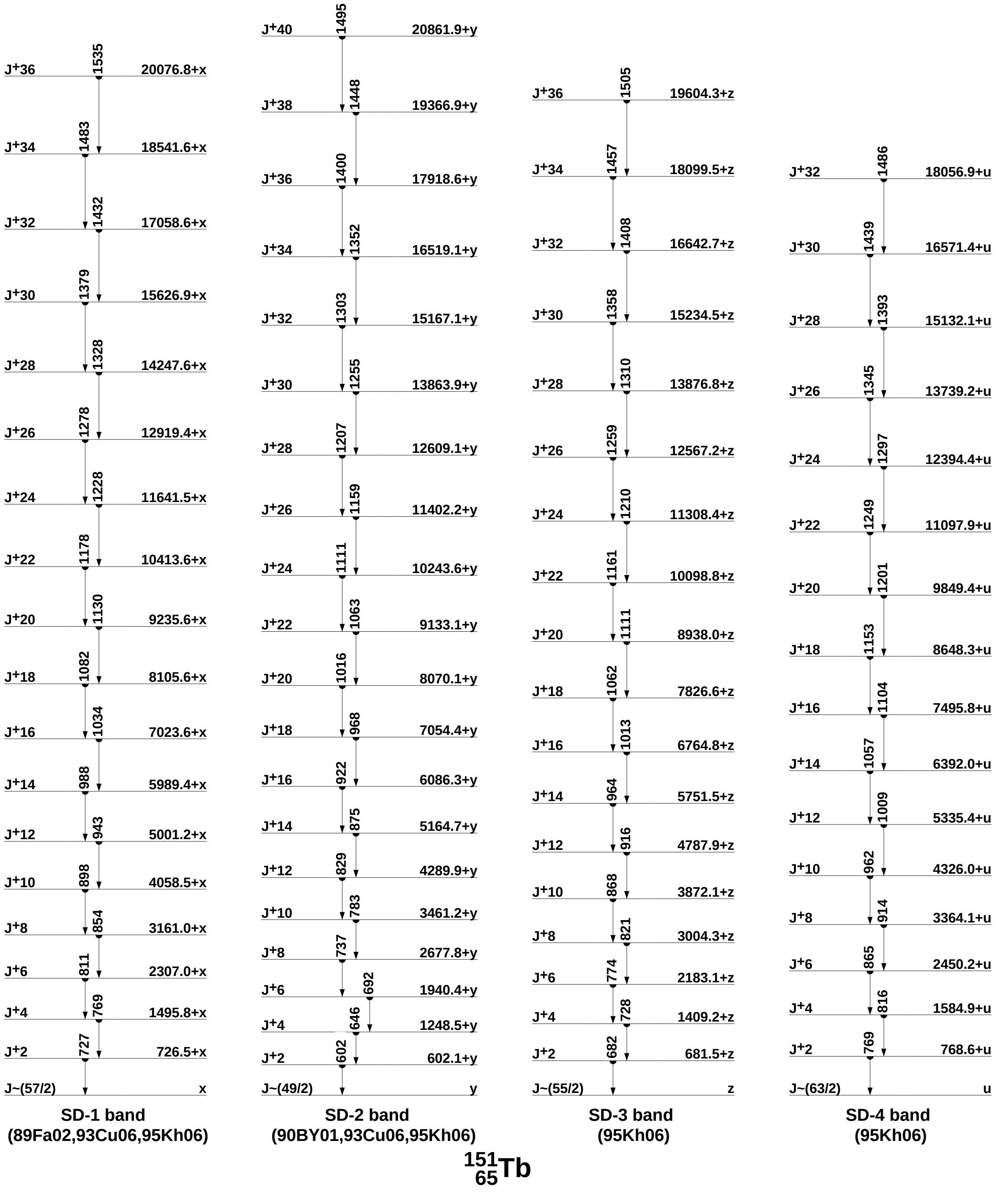
7676.8 2, (55/2−) γ_{7249}**428.2** 4 ($\dagger_\gamma$100)

7764.9 3, (57/2−) γ_{7619}**145.1** 4 ($\dagger_\gamma$100)

7882.9 2, (57/2$^-$) γ_{7765}***117.2*** 4 ($\dagger_\gamma$4.2 4) γ_{7677}***205.9*** 2 ($\dagger_\gamma$100 10) γ_{7249}***634.6*** 2 ($\dagger_\gamma$42 14)
7901.8 2, (57/2$^+$) γ_{7619}***282.8*** 4 ($\dagger_\gamma$1.2 6) γ_{7305}***597.2*** 1 ($\dagger_\gamma$44 6) γ_{7265}***637.1*** 1 ($\dagger_\gamma$100 2) γ_{7249}***653.2*** 4 ($\dagger_\gamma$2.1 12)
8283.2 2, (61/2$^+$) γ_{7902}***381.4*** 1 ($\dagger_\gamma$100 2) γ_{7883}***400.5*** 4 ($\dagger_\gamma$3.2 11)
8336.2 2, (59/2$^-$) γ_{7677}***659.7*** 2 ($\dagger_\gamma$100)
8802.8 2, (61/2$^-$) γ_{8336}***466.8*** 2 ($\dagger_\gamma$100 10) γ_{7883}***919.9*** 4 ($\dagger_\gamma$28 3)
9035.2 3, (63/2) γ_{8283}***752.1*** 4 ($\dagger_\gamma$100)
9123.8 2, (63/2$^-$) γ_{8803}***321.2*** 2 ($\dagger_\gamma$100 10) γ_{8283}***840.3*** 4 ($\dagger_\gamma$53 12)
9379.7 2, (65/2$^+$) γ_{9124}***256.2*** 4 ($\dagger_\gamma$2.6 3) γ_{8283}***1096.5*** 1 ($\dagger_\gamma$100 5)
9406.5 2, (65/2) γ_{8283}***1123.2*** 2 ($\dagger_\gamma$100)
9445.6 3, (63/2) γ_{8283}***1162.4*** 4 ($\dagger_\gamma$100)
9490.3 2, (65/2$^+$) γ_{9124}***366.9*** 4 ($\dagger_\gamma$33 3) γ_{9035}***455.3*** 4 ($\dagger_\gamma$43 4) γ_{8283}***1207.0*** 2 ($\dagger_\gamma$100 5)
9530.5 3, (63/2$^-$) γ_{8283}***1247.3*** 4 ($\dagger_\gamma$100)
9708.9 2, (67/2) γ_{9407}***302.5*** 2 ($\dagger_\gamma$100)
9733.8 2, (65/2$^+$) γ_{9446}***288.2*** 4 ($\dagger_\gamma$78 33) γ_{8283}***1450.6*** 4 ($\dagger_\gamma$100 33)
9750.7 2, (67/2$^-$) γ_{9531}***220.2*** 4 ($\dagger_\gamma$1.9 2) γ_{9490}***260.3*** 2 ($\dagger_\gamma$11 7) γ_{9380}***371.0*** 1 ($\dagger_\gamma$100 5)
10032.4 2, (67/2$^+$) γ_{9734}***298.6*** 2 ($\dagger_\gamma$75 39) γ_{9380}***652.7*** 2 ($\dagger_\gamma$100 10)
10296.9 4, (71/2) γ_{9709}***588.0*** 4 ($\dagger_\gamma$100)
10350.6 2, (69/2$^+$) γ_{10032}***318.2*** 2 ($\dagger_\gamma$100 33) γ_{9380}***970.9*** 2 ($\dagger_\gamma$100 10)
10620.5 4 γ_{9380}***1240.8*** 4 ($\dagger_\gamma$100)
10772.5 4, (71/2) γ_{9709}***1063.6*** 4 ($\dagger_\gamma$100)
10792.1 2, (71/2$^-$) γ_{10351}***441.3*** 4 ($\dagger_\gamma$3.4 4) γ_{9751}***1041.5*** 1 ($\dagger_\gamma$100 5)
10997.9 3, (69/2$^-$) γ_{9751}***1247.0*** 4 ($\dagger_\gamma$100)
11200.7 4, (71/2) γ_{9751}***1450.0*** 4 ($\dagger_\gamma$100)
11202.0 4 γ_{10351}***851.4*** 4 ($\dagger_\gamma$100)
11275.0 3, (71/2$^-$) γ_{10998}***276.9*** 4 ($\dagger_\gamma$100 10) γ_{10351}***924.3*** 4 ($\dagger_\gamma$86 9) γ_{9751}***1523.9*** 4 ($\dagger_\gamma$29 7)
11426.0 4, (73/2$^+$) γ_{10351}***1075.4*** 4 ($\dagger_\gamma$100)
11593.2 2, (73/2$^-$) γ_{11275}***317.6*** 4 ($\dagger_\gamma$30 15) γ_{10792}***801.4*** 2 ($\dagger_\gamma$100 10)
11726.5 2, (75/2$^-$) γ_{11593}***134.3*** 4 ($\dagger_\gamma$1.2 1) γ_{10792}***934.2*** 2 ($\dagger_\gamma$100 10)
11756.7 5 γ_{11426}***330.7*** 4 ($\dagger_\gamma$100)
11760.8 5 γ_{10773}***988.3*** 4 ($\dagger_\gamma$100)
11830.1 4, (73/2) γ_{10792}***1038.0*** 4 ($\dagger_\gamma$100)
11957.0 3, (75/2$^-$) γ_{10792}***1164.8*** 2 ($\dagger_\gamma$100)
12704.2 3, (75/2$^-$) γ_{10792}***1912.0*** 2 ($\dagger_\gamma$100)
12720.1 3, (79/2$^-$) γ_{11957}***763.0*** 4 ($\dagger_\gamma$21 2) γ_{11727}***993.6*** 2 ($\dagger_\gamma$100 10)
12754.3 4, (79/2$^-$) γ_{11727}***1027.8*** 4 ($\dagger_\gamma$100)
13019.6 4, (79/2$^-$) γ_{11727}***1293.1*** 4 ($\dagger_\gamma$100)
13249.5 5 γ_{11830}***1419.3*** 4 ($\dagger_\gamma$100)
13460.9 4, (81/2) γ_{12754}***706.6*** 4 ($\dagger_\gamma$60 20) γ_{12720}***740.8*** 4 ($\dagger_\gamma$100 20)
13522.9 4 γ_{12704}***818.7*** 4 ($\dagger_\gamma$100)
13524.7 4 γ_{11727}***1798.2*** 4 ($\dagger_\gamma$100)
13791.4 4, (83/2$^-$) γ_{13020}***771.8*** 4 ($\dagger_\gamma$14 2) γ_{12720}***1071.3*** 4 ($\dagger_\gamma$100 14)
13850.6 4, (79/2$^-$) γ_{12704}***1146.4*** 4 ($\dagger_\gamma$100)
14539.1 5 γ_{13791}***747.7*** 4 ($\dagger_\gamma$100)
14900.6 5 γ_{13851}***1050.0*** 4 ($\dagger_\gamma$100)
15317.1 5 γ_{13851}***1466.5*** 4 ($\dagger_\gamma$100)
15343.6 5 γ_{13851}***1493.0*** 4 ($\dagger_\gamma$100)
15641.4 5, (87/2$^-$) γ_{13791}***1850.0*** 4 ($\dagger_\gamma$100)
16589.2 6, (91/2$^-$) γ_{15641}***947.8*** 4 ($\dagger_\gamma$100)
C **x**, J≈(57/2)
C **726.5+x**, J+2 γ_{x}***726.5*** 5 $I^{(1)}$=81.6, $I^{(2)}$=93.5, $\hbar\omega$=0.374
C **1495.8+x**, J+4 γ_{727+x}***769.3*** 5 ($\dagger_\gamma$0.30 2) $I^{(1)}$=82.3, $I^{(2)}$=95.5, $\hbar\omega$=0.395
C **2307.0+x**, J+6 γ_{1496+x}***811.2*** 3 ($\dagger_\gamma$0.61 3) $I^{(1)}$=82.9, $I^{(2)}$=93.5, $\hbar\omega$=0.416
C **3161.0+x**, J+8 γ_{2307+x}***854.0*** 3 ($\dagger_\gamma$1.04 5) $I^{(1)}$=83.4, $I^{(2)}$=92.0, $\hbar\omega$=0.438
C **4058.5+x**, J+10 γ_{3161+x}***897.5*** 3 ($\dagger_\gamma$0.97 5) $I^{(1)}$=83.7, $I^{(2)}$=88.5, $\hbar\omega$=0.460
C **5001.2+x**, J+12 γ_{4059+x}***942.7*** 3 ($\dagger_\gamma$1.00 5) $I^{(1)}$=83.9, $I^{(2)}$=87.9, $\hbar\omega$=0.483
C **5989.4+x**, J+14 γ_{5001+x}***988.2*** 3 ($\dagger_\gamma$0.97 5) $I^{(1)}$=84.1, $I^{(2)}$=87.0, $\hbar\omega$=0.506
C **7023.6+x**, J+16 γ_{5989+x}***1034.2*** 3 ($\dagger_\gamma$1.02 6) $I^{(1)}$=84.1, $I^{(2)}$=83.7, $\hbar\omega$=0.529
C **8105.6+x**, J+18 γ_{7024+x}***1082.0*** 3 ($\dagger_\gamma$1.03 5) $I^{(1)}$=84.1, $I^{(2)}$=83.3, $\hbar\omega$=0.553
C **9235.6+x**, J+20 γ_{8106+x}***1130.0*** 4 ($\dagger_\gamma$1.07 6) $I^{(1)}$=84.1, $I^{(2)}$=83.3, $\hbar\omega$=0.577
C **10413.6+x**, J+22 γ_{9236+x}***1178.0*** 3 ($\dagger_\gamma$0.96 5) $I^{(1)}$=84.0, $I^{(2)}$=80.2, $\hbar\omega$=0.601
C **11641.5+x**, J+24 $\gamma_{10414+x}$***1227.9*** 3 ($\dagger_\gamma$0.94 5) $I^{(1)}$=83.8, $I^{(2)}$=80.0, $\hbar\omega$=0.626
C **12919.4+x**, J+26 $\gamma_{11642+x}$***1277.9*** 3 ($\dagger_\gamma$0.78 4) $I^{(1)}$=83.6, $I^{(2)}$=79.5, $\hbar\omega$=0.652
C **14247.6+x**, J+28 $\gamma_{12919+x}$***1328.2*** 8 ($\dagger_\gamma$0.63 4) $I^{(1)}$=83.5, $I^{(2)}$=78.3, $\hbar\omega$=0.677
C **15626.9+x**, J+30 $\gamma_{14248+x}$***1379.3*** 5 ($\dagger_\gamma$0.48 4) $I^{(1)}$=83.2, $I^{(2)}$=76.3, $\hbar\omega$=0.703
C **17058.6+x**, J+32 $\gamma_{15627+x}$***1431.7*** 7 ($\dagger_\gamma$0.25 2) $I^{(1)}$=83.0, $I^{(2)}$=78.0, $\hbar\omega$=0.729
C **18541.6+x**, J+34 $\gamma_{17059+x}$***1483.0*** 7 ($\dagger_\gamma$0.16 2) $I^{(1)}$=82.8, $I^{(2)}$=76.6, $\hbar\omega$=0.755
C **20076.8+x**, J+36 $\gamma_{18542+x}$***1535.2*** 10 ($\dagger_\gamma$0.050 15)
D **y**, J≈(49/2)
D **602.1+y**, J+2 γ_{y}***602.1*** 8 ($\dagger_\gamma$0.22 7) $I^{(1)}$=84.9, $I^{(2)}$=90.3, $\hbar\omega$=0.312
D **1248.5+y**, J+4 γ_{602+y}***646.4*** 5 ($\dagger_\gamma$0.39 8) $I^{(1)}$=85.2, $I^{(2)}$=87.9, $\hbar\omega$=0.335
D **1940.4+y**, J+6 γ_{1249+y}***691.9*** 5 ($\dagger_\gamma$1.04 15) $I^{(1)}$=85.4, $I^{(2)}$=87.9, $\hbar\omega$=0.357
D **2677.8+y**, J+8 γ_{1940+y}***737.4*** 3 ($\dagger_\gamma$1.04 15) $I^{(1)}$=85.5, $I^{(2)}$=87.0, $\hbar\omega$=0.380
D **3461.2+y**, J+10 γ_{2678+y}***783.4*** 3 ($\dagger_\gamma$1.12 15) $I^{(1)}$=85.6, $I^{(2)}$=88.3, $\hbar\omega$=0.403
D **4289.9+y**, J+12 γ_{3461+y}***828.7*** 3 ($\dagger_\gamma$0.91 13) $I^{(1)}$=85.7, $I^{(2)}$=86.8, $\hbar\omega$=0.426
D **5164.7+y**, J+14 γ_{4290+y}***874.8*** 3 ($\dagger_\gamma$1.08 13) $I^{(1)}$=85.7, $I^{(2)}$=85.5, $\hbar\omega$=0.449
D **6086.3+y**, J+16 γ_{5165+y}***921.6*** 4 ($\dagger_\gamma$0.96 12) $I^{(1)}$=85.7, $I^{(2)}$=86.0, $\hbar\omega$=0.472
D **7054.4+y**, J+18 γ_{6086+y}***968.1*** 4 ($\dagger_\gamma$1.00 13) $I^{(1)}$=85.7, $I^{(2)}$=84.0, $\hbar\omega$=0.496
D **8070.1+y**, J+20 γ_{7054+y}***1015.7*** 4 ($\dagger_\gamma$0.98 12) $I^{(1)}$=85.6, $I^{(2)}$=84.6, $\hbar\omega$=0.520
D **9133.1+y**, J+22 γ_{8070+y}***1063.0*** 5 ($\dagger_\gamma$0.97 13) $I^{(1)}$=85.6, $I^{(2)}$=84.2, $\hbar\omega$=0.543
D **10243.6+y**, J+24 γ_{9133+y}***1110.5*** 6 ($\dagger_\gamma$1.00 14) $I^{(1)}$=85.5, $I^{(2)}$=83.2, $\hbar\omega$=0.567
D **11402.2+y**, J+26 $\gamma_{10244+y}$***1158.6*** 6 ($\dagger_\gamma$0.91 13) $I^{(1)}$=85.4, $I^{(2)}$=82.8, $\hbar\omega$=0.591
D **12609.1+y**, J+28 $\gamma_{11402+y}$***1206.9*** 8 ($\dagger_\gamma$1.02 17) $I^{(1)}$=85.3, $I^{(2)}$=83.5, $\hbar\omega$=0.615
D **13863.9+y**, J+30 $\gamma_{12609+y}$***1254.8*** 6 ($\dagger_\gamma$0.77 10) $I^{(1)}$=85.2, $I^{(2)}$=82.6, $\hbar\omega$=0.639
D **15167.1+y**, J+32 $\gamma_{13864+y}$***1303.2*** 8 ($\dagger_\gamma$0.62 13) $I^{(1)}$=85.1, $I^{(2)}$=82.0, $\hbar\omega$=0.664
D **16519.1+y**, J+34 $\gamma_{15167+y}$***1352.0*** 8 ($\dagger_\gamma$0.48 7) $I^{(1)}$=85.0, $I^{(2)}$=84.2, $\hbar\omega$=0.688
D **17918.6+y**, J+36 $\gamma_{16519+y}$***1399.5*** 9 ($\dagger_\gamma$0.34 6) $I^{(1)}$=85.0, $I^{(2)}$=82.0, $\hbar\omega$=0.712
D **19366.9+y**, J+38 $\gamma_{17919+y}$***1448.3*** 9 ($\dagger_\gamma$0.21 4) $I^{(1)}$=84.9, $I^{(2)}$=85.7, $\hbar\omega$=0.736
D **20861.9+y**, J+40 $\gamma_{19367+y}$***1495.0*** 11 ($\dagger_\gamma$0.13 4)
E **z**, J≈(55/2)
E **681.5+z**, J+2 γ_{z}***681.5*** 10 ($\dagger_\gamma$0.31 10) $I^{(1)}$=83.7, $I^{(2)}$=86.6, $\hbar\omega$=0.352
E **1409.2+z**, J+4 γ_{682+z}***727.7*** 8 ($\dagger_\gamma$0.65 6) $I^{(1)}$=83.9, $I^{(2)}$=86.6, $\hbar\omega$=0.375
E **2183.1+z**, J+6 γ_{1409+z}***773.9*** 5 ($\dagger_\gamma$0.99 8) $I^{(1)}$=84.0, $I^{(2)}$=84.6, $\hbar\omega$=0.399
E **3004.3+z**, J+8 γ_{2183+z}***821.2*** 8 ($\dagger_\gamma$0.92 18) $I^{(1)}$=84.1, $I^{(2)}$=85.8, $\hbar\omega$=0.422
E **3872.1+z**, J+10 γ_{3004+z}***867.8*** 8 ($\dagger_\gamma$1.08 14) $I^{(1)}$=84.1, $I^{(2)}$=83.3, $\hbar\omega$=0.446
E **4787.9+z**, J+12 γ_{3872+z}***915.8*** 5 ($\dagger_\gamma$0.99 11) $I^{(1)}$=84.1, $I^{(2)}$=83.7, $\hbar\omega$=0.470
E **5751.5+z**, J+14 γ_{4788+z}***963.6*** 10 ($\dagger_\gamma$0.86 10) $I^{(1)}$=84.0, $I^{(2)}$=80.5, $\hbar\omega$=0.494
E **6764.8+z**, J+16 γ_{5752+z}***1013.3*** 5 ($\dagger_\gamma$1.08 13) $I^{(1)}$=83.9, $I^{(2)}$=82.5, $\hbar\omega$=0.519
E **7826.6+z**, J+18 γ_{6765+z}***1061.8*** 5 ($\dagger_\gamma$0.95 12) $I^{(1)}$=83.7, $I^{(2)}$=80.6, $\hbar\omega$=0.543
E **8938.0+z**, J+20 γ_{7827+z}***1111.4*** 5 ($\dagger_\gamma$1.04 12) $I^{(1)}$=83.6, $I^{(2)}$=81.0, $\hbar\omega$=0.568
E **10098.8+z**, J+22 γ_{8938+z}***1160.8*** 5 ($\dagger_\gamma$0.99 12) $I^{(1)}$=83.5, $I^{(2)}$=82.0, $\hbar\omega$=0.593
E **11308.4+z**, J+24 $\gamma_{10099+z}$***1209.6*** 5 ($\dagger_\gamma$1.06 11) $I^{(1)}$=83.5, $I^{(2)}$=81.3, $\hbar\omega$=0.617
E **12567.2+z**, J+26 $\gamma_{11308+z}$***1258.8*** 5 ($\dagger_\gamma$0.94 11) $I^{(1)}$=83.3, $I^{(2)}$=78.7, $\hbar\omega$=0.642
E **13876.8+z**, J+28 $\gamma_{12567+z}$***1309.6*** 7 ($\dagger_\gamma$0.65 8) $I^{(1)}$=83.2, $I^{(2)}$=83.2,

$\hbar\omega$=0.667

E **15234.5+z**, J+30 $\gamma_{13877+z}$***1357.7*** *7* ($\dagger_{\gamma}$0.52 *7*) $I^{(1)}$=83.2, $I^{(2)}$=79.2, $\hbar\omega$=0.691
E **16642.7+z**, J+32 $\gamma_{15235+z}$***1408.2*** *8* ($\dagger_{\gamma}$0.48 *6*) $I^{(1)}$=83.1, $I^{(2)}$=82.3, $\hbar\omega$=0.716
E **18099.5+z**, J+34 $\gamma_{16643+z}$***1456.8*** *9* ($\dagger_{\gamma}$0.32 *5*) $I^{(1)}$=83.1, $I^{(2)}$=83.3, $\hbar\omega$=0.740
E **19604.3+z**, J+36 $\gamma_{18100+z}$***1504.8*** *10* ($\dagger_{\gamma}$0.15 *7*)
F **u**, J≈(63/2)
F **768.6+u**, J+2 γ_{0}***768.6*** *5* $I^{(1)}$=84.5, $I^{(2)}$=83.9, $\hbar\omega$=0.396
F **1584.9+u**, J+4 γ_{769+u}***816.3*** *10* ($\dagger_{\gamma}$0.41 *8*) $I^{(1)}$=84.4, $I^{(2)}$=81.6, $\hbar\omega$=0.420
F **2450.2+u**, J+6 γ_{1585+u}***865.3*** *6* ($\dagger_{\gamma}$0.61 *12*) $I^{(1)}$=84.3, $I^{(2)}$=82.3, $\hbar\omega$=0.445
F **3364.1+u**, J+8 γ_{2450+u}***913.9*** *5* ($\dagger_{\gamma}$0.88 *10*) $I^{(1)}$=84.2, $I^{(2)}$=83.3, $\hbar\omega$=0.469
F **4326.0+u**, J+10 γ_{3364+u}***961.9*** *6* ($\dagger_{\gamma}$0.95 *12*) $I^{(1)}$=84.2, $I^{(2)}$=84.2, $\hbar\omega$=0.493
F **5335.4+u**, J+12 γ_{4326+u}***1009.4*** *6* ($\dagger_{\gamma}$1.04 *13*) $I^{(1)}$=84.2, $I^{(2)}$=84.7, $\hbar\omega$=0.517
F **6392.0+u**, J+14 γ_{5335+u}***1056.6*** *5* ($\dagger_{\gamma}$0.99 *9*) $I^{(1)}$=84.2, $I^{(2)}$=84.7, $\hbar\omega$=0.540
F **7495.8+u**, J+16 γ_{6392+u}***1103.8*** *8* ($\dagger_{\gamma}$1.01 *11*) $I^{(1)}$=84.2, $I^{(2)}$=82.1, $\hbar\omega$=0.564
F **8648.3+u**, J+18 γ_{7496+u}***1152.5*** *6* ($\dagger_{\gamma}$0.83 *13*) $I^{(1)}$=84.1, $I^{(2)}$=82.3, $\hbar\omega$=0.588
F **9849.4+u**, J+20 γ_{8648+u}***1201.1*** *7* ($\dagger_{\gamma}$1.12 *12*) $I^{(1)}$=84.1, $I^{(2)}$=84.4, $\hbar\omega$=0.612
F **11097.9+u**, J+22 γ_{9849+u}***1248.5*** *6* ($\dagger_{\gamma}$1.10 *14*) $I^{(1)}$=84.1, $I^{(2)}$=83.3, $\hbar\omega$=0.636
F **12394.4+u**, J+24 $\gamma_{11098+u}$***1296.5*** *7* ($\dagger_{\gamma}$1.08 *12*) $I^{(1)}$=84.0, $I^{(2)}$=82.8, $\hbar\omega$=0.660
F **13739.2+u**, J+26 $\gamma_{12394+u}$***1344.8*** *7* ($\dagger_{\gamma}$0.77 *13*) $I^{(1)}$=84.0, $I^{(2)}$=83.2, $\hbar\omega$=0.684
F **15132.1+u**, J+28 $\gamma_{13739+u}$***1392.9*** *10* ($\dagger_{\gamma}$0.70 *7*) $I^{(1)}$=84.0, $I^{(2)}$=86.2, $\hbar\omega$=0.708
F **16571.4+u**, J+30 $\gamma_{15132+u}$***1439.3*** *10* ($\dagger_{\gamma}$0.42 *6*) $I^{(1)}$=84.1, $I^{(2)}$=86.6, $\hbar\omega$=0.731
F **18056.9+u**, J+32 $\gamma_{16571+u}$***1485.5*** *10*
G **v**, J≈(53/2)
G **709.3+v**, J+2 γ_{0}***709.3*** *5* $I^{(1)}$=77.5, $I^{(2)}$=77.5, $\hbar\omega$=0.368
G **1470.2+v**, J+4 γ_{709+v}***760.9*** *5* $I^{(1)}$=77.6, $I^{(2)}$=78.4, $\hbar\omega$=0.393
G **2282.1+v**, J+6 γ_{1470+v}***811.9*** *3* $I^{(1)}$=77.6, $I^{(2)}$=77.5, $\hbar\omega$=0.419
G **3145.6+v**, J+8 γ_{2282+v}***863.5*** *7* $I^{(1)}$=77.6, $I^{(2)}$=79.5, $\hbar\omega$=0.444
G **4059.8+v**, J+10 γ_{3146+v}***913.8*** *4* $I^{(1)}$=77.7, $I^{(2)}$=77.2, $\hbar\omega$=0.470
G **5025.0+v**, J+12 γ_{4060+v}***965.6*** *4* $I^{(1)}$=77.6, $I^{(2)}$=76.0, $\hbar\omega$=0.496
G **6043.2+v**, J+14 γ_{5025+v}***1018.2*** *5* $I^{(1)}$=77.5, $I^{(2)}$=75.3, $\hbar\omega$=0.522
G **7114.5+v**, J+16 γ_{6043+v}***1071.3*** *5* $I^{(1)}$=77.4, $I^{(2)}$=74.9, $\hbar\omega$=0.549
G **8239.2+v**, J+18 γ_{7115+v}***1124.7*** *5* $I^{(1)}$=77.3, $I^{(2)}$=76.3, $\hbar\omega$=0.575
G **9416.3+v**, J+20 γ_{8239+v}***1177.1*** *5* $I^{(1)}$=77.3, $I^{(2)}$=76.6, $\hbar\omega$=0.602
G **10645.6+v**, J+22 γ_{9416+v}***1229.3*** *5* $I^{(1)}$=77.2, $I^{(2)}$=74.9, $\hbar\omega$=0.628
G **11928.3+v**, J+24 $\gamma_{10646+v}$***1282.7*** *5* $I^{(1)}$=77.2, $I^{(2)}$=75.9, $\hbar\omega$=0.655
G **13263.7+v**, J+26 $\gamma_{11928+v}$***1335.4*** *7* $I^{(1)}$=77.1, $I^{(2)}$=74.9, $\hbar\omega$=0.681
G **14652.5+v**, J+28 $\gamma_{13264+v}$***1388.8*** *7* $I^{(1)}$=77.0, $I^{(2)}$=72.2, $\hbar\omega$=0.708
G **16096.7+v**, J+30 $\gamma_{14653+v}$***1444.2*** *6* $I^{(1)}$=76.7, $I^{(2)}$=70.8, $\hbar\omega$=0.736
G **17597.4+v**, J+32 $\gamma_{16097+v}$***1500.7*** *8*
H **w**, J≈(55/2)
H **739+w**, J+2 γ_{0}***739*** *1* $I^{(1)}$=77.2, $I^{(2)}$=77.8, $\hbar\omega$=0.382
H **1529.4+w**, J+4 γ_{739+w}***790.4*** *8* $I^{(1)}$=77.3, $I^{(2)}$=83.0, $\hbar\omega$=0.407
H **2368.0+w**, J+6 γ_{1529+w}***838.6*** *6* $I^{(1)}$=77.5, $I^{(2)}$=78.3, $\hbar\omega$=0.432
H **3257.7+w**, J+8 γ_{2368+w}***889.7*** *5* $I^{(1)}$=77.6, $I^{(2)}$=77.5, $\hbar\omega$=0.458
H **4199.0+w**, J+10 γ_{3258+w}***941.3*** *5* $I^{(1)}$=77.6, $I^{(2)}$=77.5, $\hbar\omega$=0.484
H **5191.9+w**, J+12 γ_{4199+w}***992.9*** *7* $I^{(1)}$=77.6, $I^{(2)}$=77.7, $\hbar\omega$=0.509
H **6236.3+w**, J+14 γ_{5192+w}***1044.4*** *8* $I^{(1)}$=77.5, $I^{(2)}$=76.9, $\hbar\omega$=0.535
H **7332.7+w**, J+16 γ_{6236+w}***1096.4*** *8* $I^{(1)}$=77.5, $I^{(2)}$=74.3, $\hbar\omega$=0.562
H **8482.9+w**, J+18 γ_{7333+w}***1150.2*** *5* $I^{(1)}$=77.4, $I^{(2)}$=76.5, $\hbar\omega$=0.588
H **9685.4+w**, J+20 γ_{8483+w}***1202.5*** *5* $I^{(1)}$=77.3, $I^{(2)}$=75.2, $\hbar\omega$=0.615
H **10941.1+w**, J+22 γ_{9685+w}***1255.7*** *5* $I^{(1)}$=77.2, $I^{(2)}$=74.6, $\hbar\omega$=0.641
H **12250.4+w**, J+24 $\gamma_{10941+w}$***1309.3*** *7* $I^{(1)}$=77.1, $I^{(2)}$=73.4, $\hbar\omega$=0.668
H **13614.2+w**, J+26 $\gamma_{12250+w}$***1363.8*** *5* $I^{(1)}$=77.0, $I^{(2)}$=78.7, $\hbar\omega$=0.695
H **15028.8+w**, J+28 $\gamma_{13614+w}$***1414.6*** *5* $I^{(1)}$=76.9, $I^{(2)}$=67.6, $\hbar\omega$=0.722
H **16502.6+w**, J+30 $\gamma_{15029+w}$***1473.8*** *8*
I **r**, J≈(55/2)
I **758+r**, J+2 γ_{0}***758*** *1* $I^{(1)}$=75.4, $I^{(2)}$=80.0, $\hbar\omega$=0.392
I **1566+r**, J+4 γ_{758+r}***808*** *1* $I^{(1)}$=75.6, $I^{(2)}$=79.8, $\hbar\omega$=0.417
I **2424.1+r**, J+6 γ_{1566+r}***858.1*** *5* $I^{(1)}$=75.8, $I^{(2)}$=77.4, $\hbar\omega$=0.442
I **3333.9+r**, J+8 γ_{2424+r}***909.8*** *5* $I^{(1)}$=75.9, $I^{(2)}$=79.7, $\hbar\omega$=0.467
I **4293.9+r**, J+10 γ_{3334+r}***960.0*** *5* $I^{(1)}$=76.1, $I^{(2)}$=77.5, $\hbar\omega$=0.493
I **5305.5+r**, J+12 γ_{4294+r}***1011.6*** *5* $I^{(1)}$=76.1, $I^{(2)}$=76.0, $\hbar\omega$=0.519
I **6369.7+r**, J+14 γ_{5306+r}***1064.2*** *5* $I^{(1)}$=76.2, $I^{(2)}$=78.0, $\hbar\omega$=0.545
I **7485.2+r**, J+16 γ_{6370+r}***1115.5*** *6* $I^{(1)}$=76.1, $I^{(2)}$=73.7, $\hbar\omega$=0.571
I **8655.0+r**, J+18 γ_{7485+r}***1169.8*** *6* $I^{(1)}$=76.1, $I^{(2)}$=77.7, $\hbar\omega$=0.598
I **9876.3+r**, J+20 γ_{8655+r}***1221.3*** *7* $I^{(1)}$=76.1, $I^{(2)}$=75.3, $\hbar\omega$=0.624
I **11150.7+r**, J+22 γ_{9876+r}***1274.4*** *5* $I^{(1)}$=76.1, $I^{(2)}$=74.3, $\hbar\omega$=0.651
I **12478.9+r**, J+24 $\gamma_{11151+r}$***1328.2*** *7* $I^{(1)}$=76.0, $I^{(2)}$=75.9, $\hbar\omega$=0.677
I **13859.8+r**, J+26 $\gamma_{12479+r}$***1380.9*** *8* $I^{(1)}$=76.0, $I^{(2)}$=73.9, $\hbar\omega$=0.704
I **15294.8+r**, J+28 $\gamma_{13860+r}$***1435*** *1* $I^{(1)}$=75.9, $I^{(2)}$=74.1, $\hbar\omega$=0.731
I **16783.8+r**, J+30 $\gamma_{15295+r}$***1489*** *1*
J **s**, J≈(57/2)
J **785+s**, J+2 γ_{0}***785*** *1* $I^{(1)}$=75.4, $I^{(2)}$=85.1, $\hbar\omega$=0.404
J **1617+s**, J+4 γ_{785+s}***832*** *1* $I^{(1)}$=75.8, $I^{(2)}$=76.9, $\hbar\omega$=0.429
J **2501+s**, J+6 γ_{1617+s}***884*** *1* $I^{(1)}$=75.9, $I^{(2)}$=78.6, $\hbar\omega$=0.455
J **3435.9+s**, J+8 γ_{2501+s}***934.9*** *5* $I^{(1)}$=76.0, $I^{(2)}$=78.4, $\hbar\omega$=0.480
J **4421.8+s**, J+10 γ_{3436+s}***985.9*** *5* $I^{(1)}$=76.1, $I^{(2)}$=75.6, $\hbar\omega$=0.506
J **5460.6+s**, J+12 γ_{4422+s}***1038.8*** *5* $I^{(1)}$=76.1, $I^{(2)}$=78.3, $\hbar\omega$=0.532
J **6550.5+s**, J+14 γ_{5461+s}***1089.9*** *5* $I^{(1)}$=76.1, $I^{(2)}$=74.9, $\hbar\omega$=0.558
J **7693.8+s**, J+16 γ_{6551+s}***1143.3*** *7* $I^{(1)}$=76.1, $I^{(2)}$=74.6, $\hbar\omega$=0.585
J **8890.7+s**, J+18 γ_{7694+s}***1196.9*** *7* $I^{(1)}$=76.0, $I^{(2)}$=76.9, $\hbar\omega$=0.611
J **10139.6+s**, J+20 γ_{8891+s}***1248.9*** *7* $I^{(1)}$=76.1, $I^{(2)}$=75.3, $\hbar\omega$=0.638
J **11441.6+s**, J+22 $\gamma_{10140+s}$***1302*** *1* $I^{(1)}$=76.0, $I^{(2)}$=74.1, $\hbar\omega$=0.664
J **12797.6+s**, J+24 $\gamma_{11442+s}$***1356*** *1*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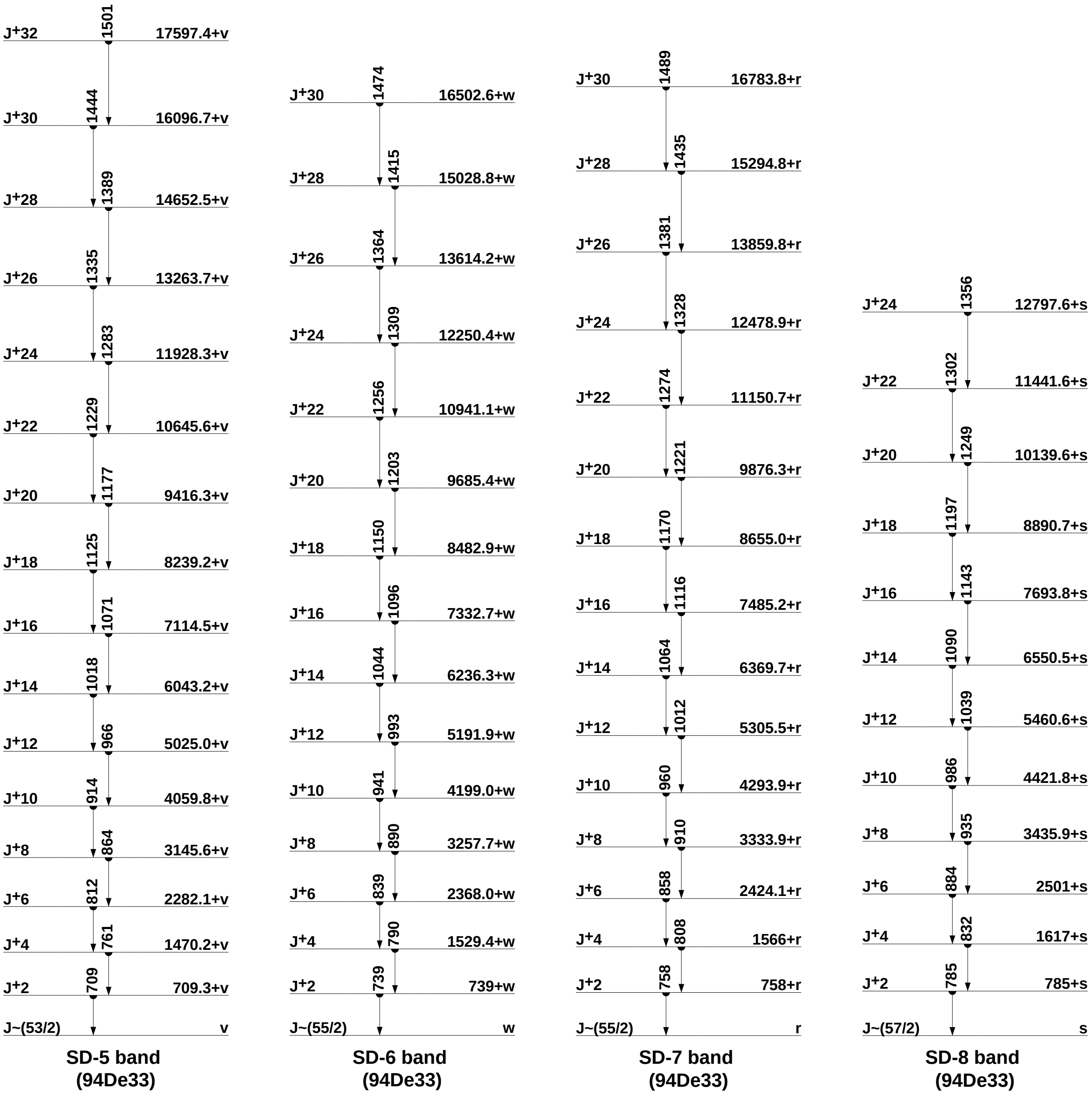
J+34 1483 18541.6+x
J+32 1432 17058.6+x
J+30 1379 15626.9+x
J+28 1328 14247.6+x
J+26 1278 12919.4+x
J+24 1228 11641.5+x
J+22 1178 10413.6+x
J+20 1130 9235.6+x
J+18 1082 8105.6+x
J+16 1034 7023.6+x
J+14 988 5989.4+x
J+12 943 5001.2+x
J+10 898 4058.5+x
J+8 854 3161.0+x
J+6 811 2307.0+x
J+4 769 1495.8+x
J+2 727 726.5+x
J~(57/2) x
SD-1 band
(89Fa02,93Cu06,95Kh06)
J+40 1495 20861.9+y
J+38 1448 19366.9+y
J+36 1400 17918.6+y
J+34 1352 16519.1+y
J+32 1303 15167.1+y
J+30 1255 13863.9+y
J+28 1207 12609.1+y
J+26 1159 11402.2+y
J+24 1111 10243.6+y
J+22 1063 9133.1+y
J+20 1016 8070.1+y
J+18 968 7054.4+y
J+16 922 6086.3+y
J+14 875 5164.7+y
J+12 829 4289.9+y
J+10 783 3461.2+y
J+8 737 2677.8+y
J+6 692 1940.4+y
J+4 646 1248.5+y
J+2 602 602.1+y
J~(49/2) y
SD-2 band
(90BY01,93Cu06,95Kh06)
J+36 1505 19604.3+z
J+34 1457 18099.5+z
J+32 1408 16642.7+z
J+30 1358 15234.5+z
J+28 1310 13876.8+z
J+26 1259 12567.2+z
J+24 1210 11308.4+z
J+22 1161 10098.8+z
J+20 1111 8938.0+z
J+18 1062 7826.6+z
J+16 1013 6764.8+z
J+14 964 5751.5+z
J+12 916 4787.9+z
J+10 868 3872.1+z
J+8 821 3004.3+z
J+6 774 2183.1+z
J+4 728 1409.2+z
J+2 682 681.5+z
J~(55/2) z
SD-3 band
(95Kh06)
J+32 1486 18056.9+u
J+30 1439 16571.4+u
J+28 1393 15132.1+u
J+26 1345 13739.2+u
J+24 1297 12394.4+u
J+22 1249 11097.9+u
J+20 1201 9849.4+u
J+18 1153 8648.3+u
J+16 1104 7495.8+u
J+14 1057 6392.0+u
J+12 1009 5335.4+u
J+10 962 4326.0+u
J+8 914 3364.1+u
J+6 865 2450.2+u
J+4 816 1584.9+u
J+2 769 768.6+u
J~(63/2) u
SD-4 band
(95Kh06)
151 65 Tb


J+32 1501 17597.4+v
J+30 1444 16096.7+v
J+28 1389 14652.5+v
J+26 1335 13263.7+v
J+24 1283 11928.3+v
J+22 1229 10645.6+v
J+20 1177 9416.3+v
J+18 1125 8239.2+v
J+16 1071 7114.5+v
J+14 1018 6043.2+v
J+12 966 5025.0+v
J+10 914 4059.8+v
J+8 864 3145.6+v
J+6 812 2282.1+v
J+4 761 1470.2+v
J+2 709 709.3+v
J~(53/2) v
SD-5 band
(94De33)
J+30 1474 16502.6+w
J+28 1415 15028.8+w
J+26 1364 13614.2+w
J+24 1309 12250.4+w
J+22 1256 10941.1+w
J+20 1203 9685.4+w
J+18 1150 8482.9+w
J+16 1096 7332.7+w
J+14 1044 6236.3+w
J+12 993 5191.9+w
J+10 941 4199.0+w
J+8 890 3257.7+w
J+6 839 2368.0+w
J+4 790 1529.4+w
J+2 739 739+w
J~(55/2) w
SD-6 band
(94De33)
J+30 1489 16783.8+r
J+28 1435 15294.8+r
J+26 1381 13859.8+r
J+24 1328 12478.9+r
J+22 1274 11150.7+r
J+20 1221 9876.3+r
J+18 1170 8655.0+r
J+16 1116 7485.2+r
J+14 1064 6369.7+r
J+12 1012 5305.5+r
J+10 960 4293.9+r
J+8 910 3333.9+r
J+6 858 2424.1+r
J+4 808 1566+r
J+2 758 758+r
J~(55/2) r
SD-7 band
(94De33)
J+24 1356 12797.6+s
J+22 1302 11441.6+s
J+20 1249 10139.6+s
J+18 1197 8890.7+s
J+16 1143 7693.8+s
J+14 1090 6550.5+s
J+12 1039 5460.6+s
J+10 986 4421.8+s
J+8 935 3435.9+s
J+6 884 2501+s
J+4 832 1617+s
J+2 785 785+s
J~(57/2) s
SD-8 band
(94De33)

$^{151}_{65}$Tb