$^{150}_{65}$Tb

Δ: –71116 *8* **S$_n$:** 7687 *9* **S$_p$:** 3267 *8*
Q$_{EC}$: 4656 *9* **Q$_\alpha$:** 3587 *5*

Nuclear Bands

A SD-1 band (89De10,95Fa09)
B SD-2 band (95Fa09)
C SD-3 band (95Fa09)

Levels and γ-ray branchings:

0, (2$^-$), 3.48 *16* h, %EC+%β^+=100, %α<0.05
397.2 *3*, (1$^+$) γ_0***397.2*** *3* (?) ($\dagger_\gamma$100) E1
474 *51*, 9$^+$, 5.8 *2* m, %EC+%β^+≈100
1067.95 *25*, 10$^+$ γ_{474}***594.0*** *3* ($\dagger_\gamma$100.0)
1232.79 *24*, 11$^+$ γ_{474}***758.8*** *3* ($\dagger_\gamma$100.0)
1306.55 *25*, 10$^-$ γ_{474}***832.5*** *3* ($\dagger_\gamma$100.0)
1348.40 *24*, 11$^-$, 0.39 *6* ns γ_{1307}***41.8*** *3* ($\dagger_\gamma$0.000) γ_{1233}***115.7*** *3* ($\dagger_\gamma$29 *3*) γ_{1068}***280.5*** *3* ($\dagger_\gamma$100 *10*)
1586.5 *4*, 12$^-$ γ_{1348}***238.1*** *3* ($\dagger_\gamma$100.0)
1910.4 *4*, 13$^+$ γ_{1233}***677.5*** *3* ($\dagger_\gamma$100.0)
2114.0 *4*, 13$^-$ γ_{1348}***765.7*** *3* ($\dagger_\gamma$100.0)
2404.9 *4*, 14$^-$ γ_{2114}***290.9*** *3* ($\dagger_\gamma$56 *7*) γ_{1587}***818.5*** *3* ($\dagger_\gamma$100 *13*)
2413.0 *4*, 14$^+$ γ_{1910}***502.6*** *3* ($\dagger_\gamma$100.0)
2641.7 *4*, 16$^+$ γ_{2413}***228.7*** *3* ($\dagger_\gamma$100.0)
2741.4 *4*, 15$^-$ γ_{2114}***627.4*** *3* ($\dagger_\gamma$100.0)
2757.6 *4*, (15$^+$) γ_{1910}***847.1*** *3* ($\dagger_\gamma$100.0)
3017.9 *4*, 16$^-$ γ_{2758}***260.2*** *3* ($\dagger_\gamma$2.1 *7*) γ_{2741}***276.5*** *3* ($\dagger_\gamma$100 *10*) γ_{2642}***376.0*** *3* ($\dagger_\gamma$3.4 *7*) γ_{2405}***613.0*** *3* ($\dagger_\gamma$37 *5*)
3373.6 *5*, 18$^-$ γ_{3018}***355.6*** *3* ($\dagger_\gamma$100 *10*) γ_{2642}***732.1*** *3* ($\dagger_\gamma$1.4 *6*)
3684.5 *5*, 19$^-$ γ_{3374}***310.9*** *3* ($\dagger_\gamma$100.0)
3898.2 *5*, 20$^-$ γ_{3685}***213.7*** *3* ($\dagger_\gamma$96 *9*) γ_{3374}***524.6*** *3* ($\dagger_\gamma$100 *9*)
3933.2 *5*, 19$^+$ γ_{3374}***559.6*** *3* ($\dagger_\gamma$100.0)
4324.0 *5*, 20$^+$ γ_{3933}***390.7*** *3* ($\dagger_\gamma$100 *12*) γ_{3685}***639.4*** *3* ($\dagger_\gamma$62 *8*)
4818.2 *5*, 21$^+$ γ_{4324}***494.1*** *3* ($\dagger_\gamma$100 *10*) γ_{3898}***920.1*** *3* ($\dagger_\gamma$85 *8*)
4894.6 *6*, 22$^+$ γ_{4818}***76*** *1* ($\dagger_\gamma$0.000)
4972.7 *5*, 21$^-$ γ_{3898}***1074.5*** *3* ($\dagger_\gamma$30 *10*) γ_{3685}***1288.2*** *3* ($\dagger_\gamma$100 *10*)
5238.9 *5*, 22$^-$ γ_{4973}***266.2*** *3* ($\dagger_\gamma$100 *10*) γ_{3898}***1340.7*** *3* ($\dagger_\gamma$100 *20*)
5448.8 *6*, 22$^+$ γ_{4895}***554.1*** *3* ($\dagger_\gamma$90 *10*) γ_{4818}***630.7*** *3* ($\dagger_\gamma$100 *10*)
5667.5 *6*, (22$^-$) γ_{4818}***849.3*** *3* ($\dagger_\gamma$100.0)
5725.8 *6*, 23$^+$ γ_{5668}***58*** *1* ($\dagger_\gamma$0.000) γ_{5449}***277.1*** *3* ($\dagger_\gamma$79 *15*) γ_{5239}***486.9*** *3* ($\dagger_\gamma$86 *8*) γ_{4895}***831.2*** *3* ($\dagger_\gamma$93 *22*) γ_{4818}***907.5*** *3* ($\dagger_\gamma$100 *8*)
5842.5 *6*, 23$^-$ γ_{5726}***116.6*** *3* ($\dagger_\gamma$31 *8*) γ_{4895}***947.9*** *3* ($\dagger_\gamma$100 *10*)
5975.7 *6*, (24$^+$) γ_{4895}***1081.0*** *3* ($\dagger_\gamma$100.0)
6010.9 *6*, 24$^+$ γ_{5843}***168.4*** *3* ($\dagger_\gamma$17.0 *19*) γ_{5726}***285.3*** *3* ($\dagger_\gamma$100 *12*) γ_{4895}***1116.1*** *3* ($\dagger_\gamma$44 *4*)
6044.1 *6*, 25$^+$ γ_{6011}***33*** *1* ($\dagger_\gamma$0.000) γ_{5976}***68*** *1* ($\dagger_\gamma$0.000) γ_{5726}***318.4*** *3* ($\dagger_\gamma$100 *10*)
6382.5 *7*, 26$^+$ γ_{6044}***338.3*** *3* ($\dagger_\gamma$100.0)
6509.0 *7*, (27$^+$) γ_{6044}***465.1*** *3* ($\dagger_\gamma$100.0)
6571.4 *7*, 27$^+$ γ_{6509}***62.5*** *3* ($\dagger_\gamma$0.000) γ_{6383}***188.8*** *3* ($\dagger_\gamma$100 *9*) γ_{6044}***527.2*** *3* ($\dagger_\gamma$56 *6*)
7067.9 *7*, 28$^-$ γ_{6571}***496.5*** *3* ($\dagger_\gamma$100.0)
8168.2 *8*, 30$^-$ γ_{7068}***1100.5*** *3* ($\dagger_\gamma$100.0)
8266.1 *8*, (29$^+$) γ_{7068}***1198.3*** *3* ($\dagger_\gamma$100.0)
8335.0 *8*, (29$^-$) γ_{7068}***1266.9*** *3* ($\dagger_\gamma$100.0)
8496.9 *8*, (30) γ_{8266}***230.8*** *3* ($\dagger_\gamma$100.0)
8514.9 *8*, (30$^-$) γ_{8335}***180.1*** *3* ($\dagger_\gamma$100.0)
8519.9 *13* γ_{7068}***1452*** *1* ($\dagger_\gamma$100.0)
8540.5 *8* γ_{7068}***1472.6*** *3* ($\dagger_\gamma$100.0)
8808.2 *8*, 31$^-$ γ_{8497}***311.4*** *3* ($\dagger_\gamma$<33.33) γ_{8168}***640.0*** *3* ($\dagger_\gamma$100 *40*)
8901.2 *13*, 32 γ_{8168}***733*** *1* ($\dagger_\gamma$100.0)
8957.6 *8*, 32$^-$ γ_{8808}***149.5*** *3* ($\dagger_\gamma$15 *4*) γ_{8168}***789.5*** *3* ($\dagger_\gamma$100 *12*)
9013.4 *8*, (31) γ_{8335}***678.1*** *3* ($\dagger_\gamma$100 *50*) γ_{8168}***846*** *1* ($\dagger_\gamma$100 *50*)
9188.2 *13* γ_{8168}***1020*** *1* ($\dagger_\gamma$100.0)
9327.2 *13*, (33) γ_{8901}***426.0*** *3* ($\dagger_\gamma$100.0)
9403.5 *8* γ_{8808}***595.3*** *3* ($\dagger_\gamma$<100.0)
9556.6 *8*, (32$^-$) γ_{8515}***1041.9*** *3* ($\dagger_\gamma$100.0)
9914.3 *8*, (33$^-$) γ_{8958}***956.7*** *3* ($\dagger_\gamma$100.0)
9921.4 *8*, (33$^+$) γ_{8958}***963.8*** *3* ($\dagger_\gamma$100.0)
10006.9 *13* γ_{8497}***1510*** *1* ($\dagger_\gamma$<100.0)
10046.6 *8*, (33) γ_{9013}***1032.8*** *3* ($\dagger_\gamma$100.0)
10170.2 *17* γ_{9327}***843*** *1* ($\dagger_\gamma$100.0)
10321.6 *13* γ_{8958}***1364*** *1* ($\dagger_\gamma$<100.0)
10906.2 *9*, (35$^-$) γ_{9914}***991.9*** *3* ($\dagger_\gamma$100.0)
11072.4 *13* γ_{9921}***1151*** *1* ($\dagger_\gamma$<100.0)
11160.0 *8*, (34$^-$) γ_{10047}***1113.1*** *3* ($\dagger_\gamma$100 *50*) γ_{9921}***1238.7*** *3* ($\dagger_\gamma$<25.00) γ_{9914}***1245.8*** *3* ($\dagger_\gamma$<50.00) γ_{9557}***1603.6*** *3* ($\dagger_\gamma$45 *13*)
11567.7 *9*, (36$^-$) γ_{11160}***407.7*** *3* ($\dagger_\gamma$100.0)
12596.5 *9*, (38$^-$) γ_{11568}***1028.8*** *3* ($\dagger_\gamma$100.0)
13378.5 *14*, (39$^+$) γ_{12597}***782*** *1* ($\dagger_\gamma$100.0)
A **x**, J≈(24)
A **596.8+x**, J+2 γ_x***596.8*** *2* ($\dagger_\gamma$0.26 *5*) *$I^{(2)}$=79.1, ħω=0.311*
A **1244.2+x**, J+4 γ_{597+x}***647.4*** *1* ($\dagger_\gamma$0.57 *3*)

$I^{(2)}$=79.5, $\hbar\omega$=0.336

A **1941.9+x**, J+6 γ_{1244+x}***697.7*** 1 (†$_\gamma$1.02 2) $I^{(2)}$=79.2, $\hbar\omega$=0.361

A **2690.1+x**, J+8 γ_{1942+x}***748.2*** 1 (†$_\gamma$1.04 2) $I^{(2)}$=78.4, $\hbar\omega$=0.387

A **3489.3+x**, J+10 γ_{2690+x}***799.2*** 1 (†$_\gamma$1.02 2) $I^{(2)}$=78.0, $\hbar\omega$=0.412

A **4339.8+x**, J+12 γ_{3489+x}***850.5*** 1 (†$_\gamma$0.89 3) $I^{(2)}$=77.5, $\hbar\omega$=0.438

A **5241.9+x**, J+14 γ_{4340+x}***902.1*** 1 (†$_\gamma$1.01 2) $I^{(2)}$=76.9, $\hbar\omega$=0.464

A **6196.0+x**, J+16 γ_{5242+x}***954.1*** 1 (†$_\gamma$0.99 2) $I^{(2)}$=75.8, $\hbar\omega$=0.490

A **7202.9+x**, J+18 γ_{6196+x}***1006.9*** 1 (†$_\gamma$0.98 2) $I^{(2)}$=75.9, $\hbar\omega$=0.517

A **8262.5+x**, J+20 γ_{7203+x}***1059.6*** 1 (†$_\gamma$0.96 2) $I^{(2)}$=75.8, $\hbar\omega$=0.543

A **9374.9+x**, J+22 γ_{8263+x}***1112.4*** 1 (†$_\gamma$0.90 2) $I^{(2)}$=75.3, $\hbar\omega$=0.569

A **10540.4+x**, J+24 γ_{9375+x}***1165.5*** 1 (†$_\gamma$0.88 2) $I^{(2)}$=75.0, $\hbar\omega$=0.596

A **11759.2+x**, J+26 $\gamma_{10540+x}$***1218.8*** 1 (†$_\gamma$0.90 2) $I^{(2)}$=74.8, $\hbar\omega$=0.623

A **13031.5+x**, J+28 $\gamma_{11759+x}$***1272.3*** 1 (†$_\gamma$0.67 2) $I^{(2)}$=73.9, $\hbar\omega$=0.650

A **14357.9+x**, J+30 $\gamma_{13032+x}$***1326.4*** 2 (†$_\gamma$0.48 2) $I^{(2)}$=74.2, $\hbar\omega$=0.677

A **15738.2+x**, J+32 $\gamma_{14358+x}$***1380.3*** 2 (†$_\gamma$0.38 2) $I^{(2)}$=73.3, $\hbar\omega$=0.704

A **17173.1+x**, J+34 $\gamma_{15738+x}$***1434.9*** 2 (†$_\gamma$0.24 2) $I^{(2)}$=73.4, $\hbar\omega$=0.731

A **18662.5+x**, J+36 $\gamma_{17173+x}$***1489.4*** 3 (†$_\gamma$0.17 3) $I^{(2)}$=73.1, $\hbar\omega$=0.758

A **20206.6+x**, J+38 $\gamma_{18663+x}$***1544.1*** 7 (†$_\gamma$0.10 2) $I^{(2)}$=72.1, $\hbar\omega$=0.786

A **21806.2+x**, J+40 $\gamma_{20207+x}$***1599.6*** 10 (†$_\gamma$0.05 3)

B **y**, J

B **662.5+y**, J+2 γ_{y}***662.5*** 2 (†$_\gamma$0.64 6) $I^{(2)}$=74.6, $\hbar\omega$=0.345

B **1378.6+y**, J+4 γ_{663+y}***716.1*** 2 (†$_\gamma$0.88 5) $I^{(2)}$=74.6, $\hbar\omega$=0.371

B **2148.3+y**, J+6 γ_{1379+y}***769.7*** 3 (†$_\gamma$1.10 6) $I^{(2)}$=74.3, $\hbar\omega$=0.398

B **2971.8+y**, J+8 γ_{2148+y}***823.5*** 3 (†$_\gamma$1.15 5) $I^{(2)}$=74.3, $\hbar\omega$=0.425

B **3849.1+y**, J+10 γ_{2972+y}***877.3*** 3 (†$_\gamma$0.93 5) $I^{(2)}$=75.2, $\hbar\omega$=0.452

B **4779.6+y**, J+12 γ_{3849+y}***930.5*** 2 (†$_\gamma$0.82 5) $I^{(2)}$=75.2, $\hbar\omega$=0.479

B **5763.3+y**, J+14 γ_{4780+y}***983.7*** 2 (†$_\gamma$0.97 5) $I^{(2)}$=73.8, $\hbar\omega$=0.505

B **6801.2+y**, J+16 γ_{5763+y}***1037.9*** 2 (†$_\gamma$0.91 5) $I^{(2)}$=75.6, $\hbar\omega$=0.532

B **7892.0+y**, J+18 γ_{6801+y}***1090.8*** 3 (†$_\gamma$0.95 5) $I^{(2)}$=76.5, $\hbar\omega$=0.558

B **9035.1+y**, J+20 γ_{7892+y}***1143.1*** 3 (†$_\gamma$0.64 4) $I^{(2)}$=75.5, $\hbar\omega$=0.585

B **10231.2+y**, J+22 γ_{9035+y}***1196.1*** 3 (†$_\gamma$0.70 5) $I^{(2)}$=77.7, $\hbar\omega$=0.611

B **11478.8+y**, J+24 $\gamma_{10231+y}$***1247.6*** 4 (†$_\gamma$0.47 4) $I^{(2)}$=76.8, $\hbar\omega$=0.637

B **12778.5+y**, J+26 $\gamma_{11479+y}$***1299.7*** 4 (†$_\gamma$0.58 4) $I^{(2)}$=77.4, $\hbar\omega$=0.663

B **14129.9+y**, J+28 $\gamma_{12779+y}$***1351.4*** 6 (†$_\gamma$0.52 4) $I^{(2)}$=77.1, $\hbar\omega$=0.689

B **15533.2+y**, J+30 $\gamma_{14130+y}$***1403.3*** 8 (†$_\gamma$0.31 3) $I^{(2)}$=80.5, $\hbar\omega$=0.714

B **16986.2+y**, J+32 $\gamma_{15533+y}$***1453.0*** 11 (†$_\gamma$0.17 5)

C **z**, J

C **877.0+z**, J+2 γ_{z}***877.0*** 4 (†$_\gamma$0.68 6) $I^{(2)}$=354.0, $\hbar\omega$=0.441

C **1765.3+z**, J+4 γ_{877+z}***888.3*** 3 (†$_\gamma$0.78 6) $I^{(2)}$=97.3, $\hbar\omega$=0.454

C **2694.7+z**, J+6 γ_{1765+z}***929.4*** 3 (†$_\gamma$1.08 7) $I^{(2)}$=84.0, $\hbar\omega$=0.477

C **3671.7+z**, J+8 γ_{2695+z}***977.0*** 3 (†$_\gamma$0.88 10) $I^{(2)}$=80.5, $\hbar\omega$=0.501

C **4698.4+z**, J+10 γ_{3672+z}***1026.7*** 5 (†$_\gamma$1.01 10) $I^{(2)}$=79.5, $\hbar\omega$=0.526

C **5775.4+z**, J+12 γ_{4698+z}***1077.0*** 4 (†$_\gamma$1.08 9) $I^{(2)}$=81.3, $\hbar\omega$=0.551

C **6901.6+z**, J+14 γ_{5775+z}***1126.2*** 3 (†$_\gamma$0.91 8) $I^{(2)}$=77.4, $\hbar\omega$=0.576

C **8079.5+z**, J+16 γ_{6902+z}***1177.9*** 5 (†$_\gamma$0.82 8) $I^{(2)}$=77.2, $\hbar\omega$=0.602

C **9309.2+z**, J+18 γ_{8080+z}***1229.7*** 6 (†$_\gamma$1.03 10) $I^{(2)}$=75.9, $\hbar\omega$=0.628

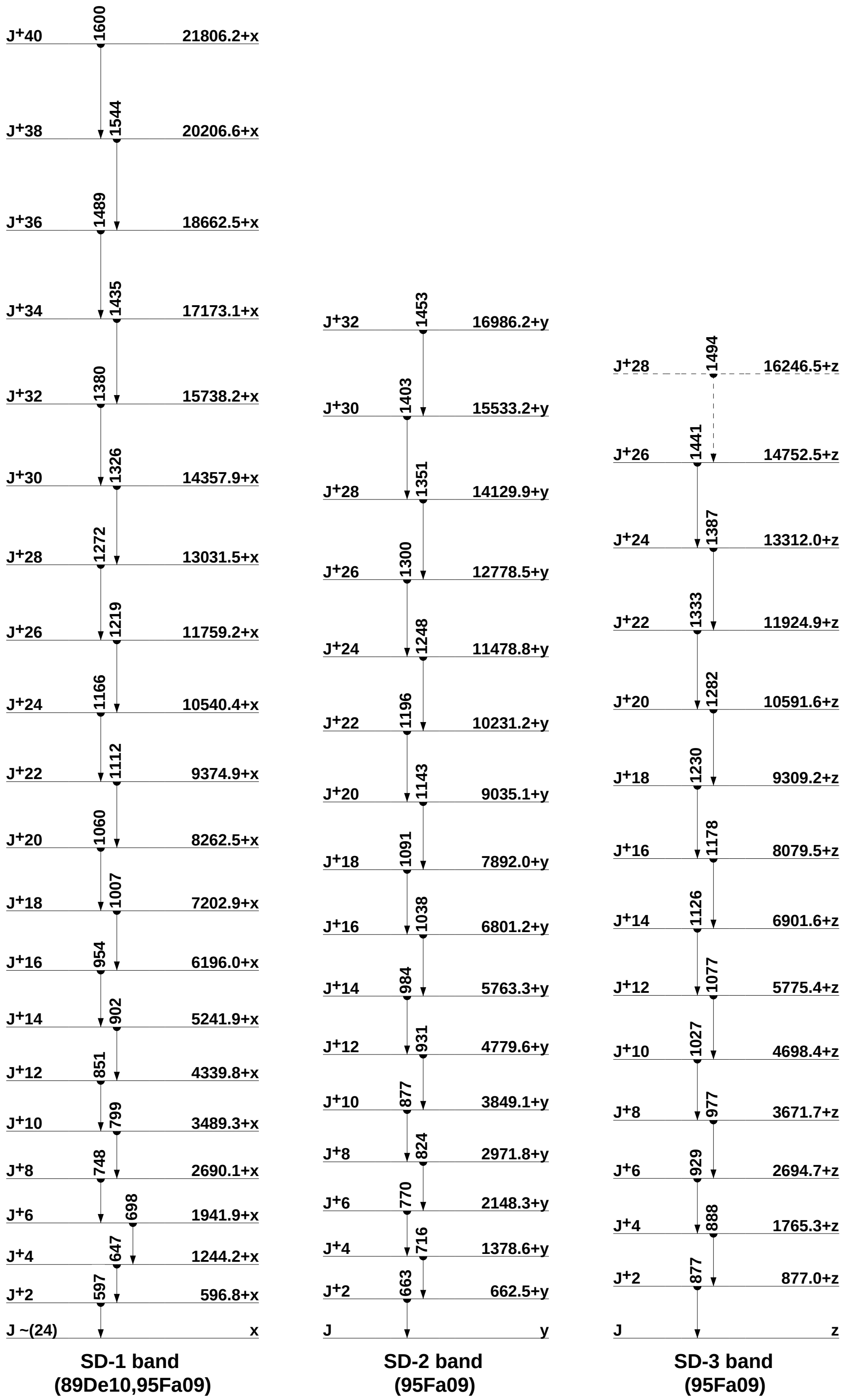
C **10591.6+z**, J+20 γ_{9309+z}***1282.4*** 6 (†$_\gamma$0.80 10) $I^{(2)}$=78.6, $\hbar\omega$=0.654

C **11924.9+z**, J+22 $\gamma_{10592+z}$***1333.3*** 7 (†$_\gamma$0.65 6) $I^{(2)}$=74.3, $\hbar\omega$=0.680

C **13312.0+z**, J+24 $\gamma_{11925+z}$***1387.1*** 9 (†$_\gamma$0.32 5) $I^{(2)}$=74.9, $\hbar\omega$=0.707

C **14752.5+z**, J+26 $\gamma_{13312+z}$***1440.5*** 10 (†$_\gamma$0.20 8) $I^{(2)}$=74.8, $\hbar\omega$=0.734

C **16246.5+z** (?), J+28 $\gamma_{14753+z}$***1494.0*** 12 (?) (†$_\gamma$0.10 5)


J+40 1600 21806.2+x
J+38 1544 20206.6+x
J+36 1489 18662.5+x
J+34 1435 17173.1+x
J+32 1380 15738.2+x
J+30 1326 14357.9+x
J+28 1272 13031.5+x
J+26 1219 11759.2+x
J+24 1166 10540.4+x
J+22 1112 9374.9+x
J+20 1060 8262.5+x
J+18 1007 7202.9+x
J+16 954 6196.0+x
J+14 902 5241.9+x
J+12 851 4339.8+x
J+10 799 3489.3+x
J+8 748 2690.1+x
J+6 698 1941.9+x
J+4 647 1244.2+x
J+2 597 596.8+x
J ~(24) x
J+32 1453 16986.2+y
J+30 1403 15533.2+y
J+28 1351 14129.9+y
J+26 1300 12778.5+y
J+24 1248 11478.8+y
J+22 1196 10231.2+y
J+20 1143 9035.1+y
J+18 1091 7892.0+y
J+16 1038 6801.2+y
J+14 984 5763.3+y
J+12 931 4779.6+y
J+10 877 3849.1+y
J+8 824 2971.8+y
J+6 770 2148.3+y
J+4 716 1378.6+y
J+2 663 662.5+y
J y
J+28 1494 16246.5+z
J+26 1441 14752.5+z
J+24 1387 13312.0+z
J+22 1333 11924.9+z
J+20 1282 10591.6+z
J+18 1230 9309.2+z
J+16 1178 8079.5+z
J+14 1126 6901.6+z
J+12 1077 5775.4+z
J+10 1027 4698.4+z
J+8 977 3671.7+z
J+6 929 2694.7+z
J+4 888 1765.3+z
J+2 877 877.0+z
J z
SD-1 band
(89De10,95Fa09)
SD-2 band
(95Fa09)
SD-3 band
(95Fa09)

$^{150}_{65}$Tb