$^{193}_{80}$Hg

Δ: −31071 *19* **S_n:** (7100) **S_p:** 5581 *25*
Q_{EC}: 2340 *17* **Q_α:** 2989 *22*

Nuclear Bands

- *A* $i_{13/2}$ favored
- *B* $i_{13/2}$ unfavored
- *C* Band Structure
- *D* Band Structure
- *E* SD-1 band (94Jo10,93Jo09,90Cu05)
- *F* SD-2 band (94Jo10,93Jo09,90Cu05)
- *G* SD-3 band (94Jo10,93Jo09,90Cu05)
- *H* SD-4 band (94Jo10,93Jo09,90Cu05)
- *I* SD-5 band (94Jo10,93Jo09,90Cu05)
- *J* SD-6 band (94Jo10)

Levels and γ-ray branchings:

0, 3/2⁻, 3.80 *15* h, %EC+%β⁺=100, μ=−0.62757 *18*, Q=−0.72 *38*

39.51 *3*, 5/2⁻, 0.63 *3* ns **γ_{0}*39.51*** *3* (†$_\gamma$100) M1

49.96 *10*, (1/2⁻) **γ_{0}*49.96*** *15* (†$_\gamma$100)

A **140.76** *5*, 13/2⁺, 11.8 *2* h, %EC+%β⁺=92.9 *9*, %IT=7.1 *9*, μ=−1.0584297 *26*, Q=+0.916 *97*
γ_{40}*101.25* *4* (†$_\gamma$100) M4

207.74 *20*, (7/2⁻) **γ_{0}*207.74*** *20* (†$_\gamma$100) (E2)

324.36 *7*, (3/2⁻) **γ_{50}*274.39*** *14* (†$_\gamma$13.5 *13*) (M1+E2): δ≈1.8 **γ_{40}*284.89*** *13* (†$_\gamma$21.6 *10*) (M1+E2): δ=0.5 $^{+4}_{-5}$
γ_{0}*324.37* *10* (†$_\gamma$100) (M1+E2): δ=0.4 $^{+3}_{-4}$

344.00 *9*, (3/2⁻) **γ_{50}*294.08*** *25* (†$_\gamma$10.3 *12*) (M1+E2): δ=0.2 $^{+8}_{-2}$ **γ_{0}*343.99*** *10* (†$_\gamma$100 *4*) (M1+E2): δ=1.7 $^{+17}_{-6}$

374.62 *9*, (3/2⁻,5/2⁻) **γ_{324}*49.5*** *11* (†$_\gamma$<40) (M1+E2): δ=0.37 $^{+8}_{-9}$ **γ_{40}*335.11*** *10* (†$_\gamma$100 *4*) (M1+E2): δ=0.32 $^{+37}_{-32}$
γ_{0}*374.58* *22* (†$_\gamma$29 *3*) (E2)

A **522.9** *2*, (17/2⁺) **γ_{141}*382.1*** *2* (†$_\gamma$100) (E2)

B **747.1** *3*, (15/2⁺) **γ_{141}*606.4*** *3* (†$_\gamma$100) (M1+E2)

752.6 *3*, (3/2⁻,5/2⁻) **γ_{40}*713.0*** *4* (†$_\gamma$52 *6*) (M1+E2): δ≈3.2 **γ_{0}*752.5*** *4* (†$_\gamma$100 *15*) (M1)

1026.6 *3*, (13/2⁺,15/2⁺) **γ_{141}*885.8*** *3* (†$_\gamma$100)

A **1145.4** *3*, (21/2⁺) **γ_{523}*622.6*** *2* (†$_\gamma$100) (E2)

B **1380.6** *2*, (19/2⁺) **γ_{747}*633.4*** *3* (†$_\gamma$70) (E2) **γ_{523}*857.6*** *2* (†$_\gamma$100) (M1+E2)

1523.3 *3*, (⁻) **γ_{753}*770.4*** *4* (†$_\gamma$100 *6*) (M1+E2): δ=0.9 $^{+10}_{-5}$ **γ_{40}*1484.1*** *7* (†$_\gamma$26 *8*) **γ_{0}*1523.4*** *4* (†$_\gamma$62 *15*)

1523.4 *3*, (17/2⁺,19/2⁺) **γ_{1027}*496.9*** *3* (†$_\gamma$33) (E2) **γ_{523}*1000.5*** *3* (†$_\gamma$100) (M1+E2)

1580.1 *3* **γ_{375}*1205.4*** *3* (†$_\gamma$23 *3*) **γ_{324}*1256.0*** *3* (†$_\gamma$23 *4*) **γ_{40}*1539.4*** *10* (†$_\gamma$20 *4*) **γ_{0}*1579.3*** *10* (†$_\gamma$100 *22*)

C **1756.0** *3*, (21/2⁻) **$\gamma_{1523.3}$*232.3*** *3* (†$_\gamma$<53) **γ_{1381}*375.3*** *2* (†$_\gamma$100) (E1) **γ_{1145}*610.4*** *4*

A **1884.2** *3*, (25/2⁺) **γ_{1145}*738.7*** *2* (†$_\gamma$100) (E2)

C **1886.5** *3*, (25/2⁻), 1.58 *6* ns **γ_{1756}*130.5*** *2* (†$_\gamma$100) (E2)

D **1890.8** *3*, (23/2⁻) **γ_{1756}*134.5*** *3* (†$_\gamma$18) **γ_{1145}*745.5*** *2* (†$_\gamma$100) (E1)

D **2095.9** *3*, (27/2⁻) **γ_{1891}*205.0*** *2* (†$_\gamma$100) (E2) **γ_{1887}*209.6*** *4* (†$_\gamma$7.5)

C **2189.2** *3*, (29/2⁻) **γ_{2096}*93.0*** *5* **γ_{1887}*302.7*** *2* (E2)

A **2502.1** *4*, (29/2⁺) **γ_{1884}*617.8*** *2* (†$_\gamma$100) (E2)

D **2583.6** *4*, (31/2⁻) **γ_{2096}*487.6*** *2* (†$_\gamma$100) (E2)

2641.6 *4*, (29/2⁺) **γ_{1884}*757.4*** *3* (†$_\gamma$100) (E2)

A **2695.5** *4*, (33/2⁺), 573 *30* ps **γ_{2502}*193.4*** *2* (†$_\gamma$100) (E2)

C **2762.2** *4*, (33/2⁻) **γ_{2189}*573.0*** *2* (†$_\gamma$100) (E2)

A **3176.1** *4*, (37/2⁺) **γ_{2696}*480.6*** *2* (†$_\gamma$100) (E2)

3195.9 *6*, (33/2⁺) **γ_{2642}*554.3*** *4* (†$_\gamma$100) (E2)

D **3223.2** *4*, (35/2⁻) **γ_{2584}*639.6*** *2* (†$_\gamma$100) (E2)

3260.0 *4*, (33/2⁺) **γ_{2696}*564.5*** *4* **γ_{2502}*757.8*** *3* (E2)

C **3497.3** *4*, (37/2⁻) **γ_{2762}*735.1*** *3* (†$_\gamma$100) (E2)

3570.0 *5*, (37/2⁺) **γ_{3260}*309.9*** *3* (†$_\gamma$70) (E2) **γ_{3176}*393.9*** *3* (†$_\gamma$100) (M1+E2)

A **3880.4** *5*, (41/2⁺) **γ_{3176}*704.3*** *3* (†$_\gamma$100) (E2)

D **3883.4** *5*, (39/2⁻) **γ_{3223}*660.1*** *3* (†$_\gamma$100) (E2)

4120.4 *6*, (41/2⁺) **γ_{3570}*550.4*** *3* (†$_\gamma$100) (E2)

C **4150.6** *5*, (41/2⁻) **γ_{3497}*653.3*** *2* (†$_\gamma$100) (E2)

4197.7 *6* **γ_{3223}*974.5*** *4* (†$_\gamma$100)

D **4396.2** *6*, (43/2⁻) **γ_{3883}*512.8*** *4* (†$_\gamma$100)

4412.1 *6* **γ_{3497}*914.8*** *4* (†$_\gamma$100)

C **4673.8** *6*, (45/2⁻) **γ_{4151}*523.2*** *3* (†$_\gamma$100) (E2)

A **4688.1** *6*, (45/2⁺) **γ_{3880}*807.7*** *3* (†$_\gamma$100)

(E2)

D **5047.3** *7*, (47/2⁻) γ_{4396}***651.1*** *3* (†$_\gamma$100) (E2)

C **5546.9** *7*, (49/2⁻) γ_{4674}***873.1*** *4* (†$_\gamma$100)

A **5556.9** *7*, (49/2⁺) γ_{4688}***868.8*** *4* (†$_\gamma$100) (E2)

D **5898.3** *8*, (51/2⁻) γ_{5047}***851.0*** *4* (†$_\gamma$100)

x, J≈(19/2⁻)

F **112.1+x**, J+1

E **233.2+x**, J+2 γ_{112+x}***121.1*** *5* γ_x***233.2*** *2* (†$_\gamma$0.37 *3*)

F **366.1+x**, J+3 γ_{233+x}***132.2*** *5* γ_{112+x}***254.0*** *2* (†$_\gamma$0.12 *5*) $I^{(1)}$*=21.9*, $I^{(2)}$*=98.5*, ħω*=0.137*

E **507.4+x**, J+4 γ_{366+x}***141.6*** *5* γ_{233+x}***274.2*** *2* (†$_\gamma$0.48 *3*) $I^{(1)}$*=27.2*, $I^{(2)}$*=100.5*, ħω*=0.147*

F **660.7+x**, J+5 γ_{507+x}***152.9*** *5* γ_{366+x}***294.6*** *2* (†$_\gamma$0.38 *8*) $I^{(1)}$*=31.8*, $I^{(2)}$*=99.3*, ħω*=0.157*

E **821.4+x**, J+6 γ_{661+x}***160.7*** *5* γ_{507+x}***314.0*** *2* (†$_\gamma$0.75 *5*) $I^{(1)}$*=36.0*, $I^{(2)}$*=101.5*, ħω*=0.167*

F **995.6+x**, J+7 γ_{821+x}***173.7*** *5* γ_{661+x}***334.9*** *2* (†$_\gamma$0.61 *9*) $I^{(1)}$*=39.5*, $I^{(2)}$*=101.0*, ħω*=0.177*

E **1174.8+x**, J+8 γ_{996+x}***179.3*** *5* γ_{821+x}***353.4*** *2* (†$_\gamma$0.90 *5*) $I^{(1)}$*=42.9*, $I^{(2)}$*=103.9*, ħω*=0.186*

F **1370.1+x**, J+9 γ_{996+x}***374.5*** *2* (†$_\gamma$0.73 *18*) $I^{(1)}$*=45.7*, $I^{(2)}$*=103.6*, ħω*=0.197*

E **1566.7+x**, J+10 γ_{1370+x}***196.9*** *5* γ_{1175+x}***391.9*** *2* (†$_\gamma$0.96 *5*) $I^{(1)}$*=48.7*, $I^{(2)}$*=107.8*, ħω*=0.205*

F **1783.2+x**, J+11 γ_{1370+x}***413.1*** *2* (†$_\gamma$1.00 *12*) $I^{(1)}$*=50.9*, $I^{(2)}$*=105.3*, ħω*=0.216*

E **1995.7+x**, J+12 γ_{1783+x}***212.3*** *5* γ_{1567+x}***429.0*** *2* (†$_\gamma$1.00 *5*) $I^{(1)}$*=53.7*, $I^{(2)}$*=113.0*, ħω*=0.223*

F **2234.3+x**, J+13 γ_{1783+x}***451.1*** *2* $I^{(1)}$*=55.4*, $I^{(2)}$*=107.5*, ħω*=0.235*

E **2460.1+x**, J+14 γ_{2234+x}***226.4*** *5* γ_{1996+x}***464.4*** *2* (†$_\gamma$0.98 *3*) $I^{(1)}$*=58.2*, $I^{(2)}$*=121.2*, ħω*=0.240*

F **2722.6+x**, J+15 γ_{2234+x}***488.3*** *2* (†$_\gamma$0.96 *18*) $I^{(1)}$*=59.2*, $I^{(2)}$*=109.3*, ħω*=0.253*

E **2957.5+x**, J+16 γ_{2460+x}***497.4*** *2* (†$_\gamma$1.00 *3*) $I^{(1)}$*=62.4*, $I^{(2)}$*=129.9*, ħω*=0.256*

F **3247.5+x**, J+17 γ_{2723+x}***524.9*** *2* (†$_\gamma$0.98 *20*) $I^{(1)}$*=62.7*, $I^{(2)}$*=114.3*, ħω*=0.271*

E **3485.7+x**, J+18 γ_{2958+x}***528.2*** *2* (†$_\gamma$1.11 *10*) $I^{(1)}$*=66.3*, $I^{(2)}$*=132.0*, ħω*=0.272*

F **3807.4+x**, J+19 γ_{3248+x}***559.9*** *2* (†$_\gamma$1.08 *10*) $I^{(1)}$*=65.8*, $I^{(2)}$*=114.3*, ħω*=0.289*

E **4044.2+x**, J+20 γ_{3486+x}***558.5*** *2* (†$_\gamma$0.94 *14*) $I^{(1)}$*=69.7*, $I^{(2)}$*=127.0*, ħω*=0.287*

F **4402.3+x**, J+21 γ_{3807+x}***594.9*** *2* $I^{(1)}$*=68.6*, $I^{(2)}$*=118.0*, ħω*=0.306*

E **4634.2+x**, J+22 γ_{4044+x}***590.0*** *2* (†$_\gamma$0.73 *20*) $I^{(1)}$*=72.6*, $I^{(2)}$*=122.7*, ħω*=0.303*

F **5031.1+x**, J+23 γ_{4402+x}***628.8*** *2* (†$_\gamma$0.85 *8*) $I^{(1)}$*=71.3*, $I^{(2)}$*=121.6*, ħω*=0.323*

E **5256.8+x**, J+24 γ_{4634+x}***622.6*** *2* $I^{(1)}$*=75.1*, $I^{(2)}$*=120.8*, ħω*=0.320*

F **5692.8+x**, J+25 γ_{5031+x}***661.7*** *2* (†$_\gamma$0.52 *12*) $I^{(1)}$*=73.8*, $I^{(2)}$*=123.5*, ħω*=0.339*

E **5912.5+x**, J+26 γ_{5257+x}***655.7*** *2* (†$_\gamma$0.40 *16*) $I^{(1)}$*=77.4*, $I^{(2)}$*=122.0*, ħω*=0.336*

F **6386.9+x**, J+27 γ_{5693+x}***694.1*** *2* (†$_\gamma$0.56 *15*) $I^{(1)}$*=76.1*, $I^{(2)}$*=127.0*, ħω*=0.355*

E **6601.0+x**, J+28 γ_{5913+x}***688.5*** *2* (†$_\gamma$0.18 *10*) $I^{(1)}$*=79.4*, $I^{(2)}$*=122.0*, ħω*=0.352*

F **7112.5+x**, J+29 γ_{6387+x}***725.6*** *2* (†$_\gamma$0.45 *19*) $I^{(1)}$*=78.3*, $I^{(2)}$*=129.0*, ħω*=0.371*

E **7322.3+x**, J+30 γ_{6601+x}***721.3*** *2* (†$_\gamma$0.39 *10*) $I^{(1)}$*=81.4*, $I^{(2)}$*=125.4*, ħω*=0.369*

F **7869.1+x**, J+31 γ_{7113+x}***756.6*** *2* (†$_\gamma$0.38 *10*) $I^{(1)}$*=80.3*, $I^{(2)}$*=130.3*, ħω*=0.386*

E **8075.5+x**, J+32 γ_{7322+x}***753.2*** *2* (†$_\gamma$0.55 *16*) $I^{(1)}$*=83.2*, $I^{(2)}$*=126.2*, ħω*=0.385*

F **8656.4+x**, J+33 γ_{7869+x}***787.3*** *2* $I^{(1)}$*=82.2*, $I^{(2)}$*=131.6*, ħω*=0.401*

E **8860.4+x**, J+34 γ_{8076+x}***784.9*** *2* $I^{(1)}$*=84.9*, $I^{(2)}$*=126.2*, ħω*=0.400*

F **9474.1+x**, J+35 γ_{8656+x}***817.7*** *3* $I^{(1)}$*=84.1*, $I^{(2)}$*=134.2*, ħω*=0.416*

E **9677.0+x**, J+36 γ_{8860+x}***816.6*** *3* $I^{(1)}$*=86.5*, $I^{(2)}$*=128.2*, ħω*=0.416*

F **10321.6+x**, J+37 γ_{9474+x}***847.5*** *4*
$I^{(1)}$*=85.9,* $I^{(2)}$*=139.9, ħω=0.431*

E **10524.8+x**, J+38 γ_{9677+x}***847.8*** *4*
$I^{(1)}$*=87.9,* $I^{(2)}$*=120.8, ħω=0.432*

F **11197.7+x**, J+39 $\gamma_{10322+x}$***876.1*** *5*

E **11405.7+x**, J+40 $\gamma_{10525+x}$***880.9*** *5*

G **y**, J≈(19/2$^+$)

H **111.1+y**, J+1

G **233.5+y**, J+2 γ_{111+y}***122.6*** *5* γ_y***233.5*** *2*
(†$_\gamma$0.21 *3*) $I^{(2)}$*=95.9, ħω=0.127*

H **365.1+y**, J+3 γ_{234+y}***132.2*** *5*
γ_{111+y}***254.0*** *2* (†$_\gamma$0.12 *5*) $I^{(1)}$*=21.9,* $I^{(2)}$*=98.5, ħω=0.137*

G **508.7+y**, J+4 γ_{365+y}***142.7*** *5*
γ_{234+y}***275.2*** *2* (†$_\gamma$0.30 *5*) $I^{(2)}$*=100.0, ħω=0.148*

H **659.7+y**, J+5 γ_{509+y}***152.9*** *5*
γ_{365+y}***294.6*** *2* (†$_\gamma$0.38 *8*) $I^{(1)}$*=31.8,* $I^{(2)}$*=99.3, ħω=0.157*

G **823.9+y**, J+6 γ_{660+y}***162.5*** *5*
γ_{509+y}***315.2*** *2* (†$_\gamma$0.53 *5*) $I^{(2)}$*=100.8, ħω=0.168*

H **994.6+y**, J+7 γ_{824+y}***173.7*** *5*
γ_{660+y}***334.9*** *2* (†$_\gamma$0.61 *9*) $I^{(1)}$*=39.5,* $I^{(2)}$*=101.0, ħω=0.177*

G **1178.8+y**, J+8 γ_{995+y}***182.6*** *5*
γ_{824+y}***354.9*** *2* (†$_\gamma$0.78 *5*) $I^{(2)}$*=102.8, ħω=0.187*

H **1369.1+y**, J+9 γ_{1179+y}***192.3*** *5*
γ_{995+y}***374.5*** *2* (†$_\gamma$0.73 *16*) $I^{(1)}$*=45.7,* $I^{(2)}$*=103.6, ħω=0.197*

G **1572.6+y**, J+10 γ_{1369+y}***201.9*** *5*
γ_{1179+y}***393.8*** *2* (†$_\gamma$0.95 *5*) $I^{(2)}$*=104.4, ħω=0.206*

H **1782.2+y**, J+11 γ_{1573+y}***212.9*** *5*
γ_{1369+y}***413.1*** *2* (†$_\gamma$1.00 *12*) $I^{(1)}$*=50.9,* $I^{(2)}$*=105.3, ħω=0.216*

G **2004.7+y**, J+12 γ_{1782+y}***220.5*** *5*
γ_{1573+y}***432.1*** *2* (†$_\gamma$1.02 *8*) $I^{(2)}$*=106.1, ħω=0.225*

H **2233.3+y**, J+13 γ_{1782+y}***451.1*** *2* $I^{(1)}$*=55.4,* $I^{(2)}$*=107.5, ħω=0.235*

G **2474.5+y**, J+14 γ_{2005+y}***469.8*** *2*
(†$_\gamma$1.00 *8*) $I^{(2)}$*=109.9, ħω=0.244*

H **2721.6+y**, J+15 γ_{2233+y}***488.3*** *2*
(†$_\gamma$0.96 *18*) $I^{(1)}$*=59.2,* $I^{(2)}$*=109.3, ħω=0.253*

G **2980.7+y**, J+16 γ_{2475+y}***506.2*** *2*
(†$_\gamma$1.00 *14*) $I^{(2)}$*=113.3, ħω=0.262*

H **3246.5+y**, J+17 γ_{2722+y}***524.9*** *2*
(†$_\gamma$0.98 *20*) $I^{(1)}$*=62.7,* $I^{(2)}$*=114.3, ħω=0.271*

G **3522.2+y**, J+18 γ_{2981+y}***541.5*** *2*
(†$_\gamma$0.82 *32*) $I^{(2)}$*=113.3, ħω=0.280*

H **3806.4+y**, J+19 γ_{3247+y}***559.9*** *2*
(†$_\gamma$1.08 *10*) $I^{(1)}$*=65.8,* $I^{(2)}$*=114.3, ħω=0.289*

G **4099.0+y**, J+20 γ_{3522+y}***576.8*** *2*
(†$_\gamma$0.63 *24*) $I^{(2)}$*=115.9, ħω=0.297*

H **4401.3+y**, J+21 γ_{3806+y}***594.9*** *2* $I^{(1)}$*=68.6,* $I^{(2)}$*=118.0, ħω=0.306*

G **4710.3+y**, J+22 γ_{4099+y}***611.3*** *2*
(†$_\gamma$0.43 *28*) $I^{(2)}$*=121.2, ħω=0.314*

H **5030.1+y**, J+23 γ_{4401+y}***628.8*** *2*
(†$_\gamma$0.85 *8*) $I^{(1)}$*=71.3,* $I^{(2)}$*=121.6, ħω=0.323*

G **5354.6+y**, J+24 γ_{4710+y}***644.3*** *2*
$I^{(2)}$*=119.4, ħω=0.331*

H **5691.8+y**, J+25 γ_{5030+y}***661.7*** *2*
(†$_\gamma$0.52 *12*) $I^{(1)}$*=73.8,* $I^{(2)}$*=123.5, ħω=0.339*

G **6032.4+y**, J+26 γ_{5355+y}***677.8*** *2*
$I^{(2)}$*=124.6, ħω=0.347*

H **6385.9+y**, J+27 γ_{5692+y}***694.1*** *2*
(†$_\gamma$0.56 *15*) $I^{(1)}$*=76.1,* $I^{(2)}$*=127.0, ħω=0.355*

G **6742.3+y**, J+28 γ_{6032+y}***709.9*** *2*
$I^{(2)}$*=123.8, ħω=0.363*

H **7111.5+y**, J+29 γ_{6386+y}***725.6*** *2*
(†$_\gamma$0.45 *19*) $I^{(1)}$*=78.3,* $I^{(2)}$*=129.0, ħω=0.371*

G **7484.5+y**, J+30 γ_{6742+y}***742.2*** *2*
$I^{(2)}$*=137.9, ħω=0.378*

H **7868.1+y**, J+31 γ_{7112+y}***756.6*** *2*
(†$_\gamma$0.38 *10*) $I^{(1)}$*=80.3,* $I^{(2)}$*=130.3, ħω=0.386*

G **8255.7+y**, J+32 γ_{7485+y}***771.2*** *3*
$I^{(2)}$*=129.0, ħω=0.393*

H **8655.4+y**, J+33 γ_{7868+y}***787.3*** *2* $I^{(1)}$*=82.2,* $I^{(2)}$*=131.6, ħω=0.401*

G **9057.9+y**, J+34 γ_{8256+y}***802.2*** *4*
$I^{(2)}$*=133.8, ħω=0.409*

H **9473.1+y**, J+35 γ_{8655+y}***817.7*** *3* $I^{(1)}$*=84.1,* $I^{(2)}$*=134.2, ħω=0.416*

G **9890.0+y**, J+36 γ_{9058+y}***832.1*** *5*
$I^{(2)}$*=140.8, ħω=0.423*

H **10320.6+y**, J+37 γ_{9473+y}***847.5*** *4*
$I^{(1)}$*=85.9,* $I^{(2)}$*=139.9, ħω=0.431*

G **10750.5+y**, J+38 γ_{9890+y}***860.5*** *5*

H **11196.7+y**, J+39 $\gamma_{10321+y}$***876.1*** *5*

I **z**, J≈(27/2$^-$)

I **291.0+z**, J+2 γ_z***291.0*** *2* (†$_\gamma$0.17 *4*)
$I^{(2)}$*=105.8, ħω=0.155*

I **619.8+z**, J+4 γ_{291+z}***328.8*** *2* (†$_\gamma$0.72 *4*)
$I^{(2)}$*=105.8, ħω=0.174*

I **986.4+z**, J+6 γ_{620+z}***366.6*** *2* (†$_\gamma$0.87 *5*)

$I^{(2)}$=104.2, ħω=0.193

I **1391.4+z**, J+8 γ_{986+z}***405.0*** *2* (†$_\gamma$0.98 *6*)
$I^{(2)}$=102.0, ħω=0.212

I **1835.6+z**, J+10 γ_{1391+z}***444.2*** *2*
(†$_\gamma$1.00 *7*) $I^{(2)}$=99.8, ħω=0.232

I **2319.9+z**, J+12 γ_{1836+z}***484.3*** *2*
(†$_\gamma$1.00 *5*) $I^{(2)}$=96.2, ħω=0.253

I **2845.8+z**, J+14 γ_{2320+z}***525.9*** *2*
(†$_\gamma$0.98 *7*) $I^{(2)}$=98.0, ħω=0.273

I **3412.5+z**, J+16 γ_{2846+z}***566.7*** *2*
(†$_\gamma$0.98 *8*) $I^{(2)}$=104.4, ħω=0.293

I **4017.5+z**, J+18 γ_{3413+z}***605.0*** *2*
$I^{(2)}$=112.7, ħω=0.311

I **4658.0+z**, J+20 γ_{4018+z}***640.5*** *2*
(†$_\gamma$0.82 *7*) $I^{(2)}$=117.6, ħω=0.329

I **5332.5+z**, J+22 γ_{4658+z}***674.5*** *2*
(†$_\gamma$0.80 *7*) $I^{(2)}$=121.2, ħω=0.346

I **6040.0+z**, J+24 γ_{5333+z}***707.5*** *2*
(†$_\gamma$0.72 *7*) $I^{(2)}$=125.8, ħω=0.362

I **6779.3+z**, J+26 γ_{6040+z}***739.3*** *2*
(†$_\gamma$0.61 *7*) $I^{(2)}$=131.6, ħω=0.377

I **7549.0+z**, J+28 γ_{6779+z}***769.7*** *4*
(†$_\gamma$0.46 *4*) $I^{(2)}$=126.6, ħω=0.393

I **8350.3+z**, J+30 γ_{7549+z}***801.3*** *5*
(†$_\gamma$0.36 *3*) $I^{(2)}$=133.3, ħω=0.408

I **9181.6+z**, J+32 γ_{8350+z}***831.3*** *5*
(†$_\gamma$0.21 *4*) $I^{(2)}$=134.7, ħω=0.423

I **10042.6+z** (?), J+34 γ_{9182+z}***861*** (?)
(†$_\gamma$0.15 *3*)

J **u**, J≈(21/2$^-$)

J **240.5+u**, J+2 γ_0***240.5*** *2* (†$_\gamma$0.58 *5*)
$I^{(2)}$=96.6, ħω=0.131

J **522.4+u**, J+4 γ_{241+u}***281.9*** *2* (†$_\gamma$0.80 *5*)
$I^{(2)}$=96.2, ħω=0.151

J **845.9+u**, J+6 γ_{522+u}***323.5*** *2* (†$_\gamma$0.90 *5*)
$I^{(2)}$=95.5, ħω=0.172

J **1211.3+u**, J+8 γ_{846+u}***365.4*** *2* (†$_\gamma$1.00 *5*)
$I^{(2)}$=97.3, ħω=0.193

J **1617.8+u**, J+10 γ_{1211+u}***406.5*** *2*
(†$_\gamma$1.00 *5*) $I^{(2)}$=97.6, ħω=0.213

J **2065.3+u**, J+12 γ_{1618+u}***447.5*** *2*
(†$_\gamma$0.98 *5*) $I^{(2)}$=98.5, ħω=0.234

J **2553.4+u**, J+14 γ_{2065+u}***488.1*** *2*
(†$_\gamma$0.95 *5*) $I^{(2)}$=100.5, ħω=0.254

J **3081.3+u**, J+16 γ_{2553+u}***527.9*** *2*
(†$_\gamma$1.05 *6*) $I^{(2)}$=101.8, ħω=0.274

J **3648.5+u**, J+18 γ_{3081+u}***567.2*** *2*
(†$_\gamma$1.00 *6*) $I^{(2)}$=102.3, ħω=0.293

J **4254.8+u**, J+20 γ_{3649+u}***606.3*** *2*
$I^{(2)}$=104.7, ħω=0.313

J **4899.3+u**, J+22 γ_{4255+u}***644.5*** *2*
(†$_\gamma$0.90 *10*) $I^{(2)}$=107.0, ħω=0.332

J **5581.2+u**, J+24 γ_{4899+u}***681.9*** *2*
(†$_\gamma$0.70 *6*) $I^{(2)}$=109.0, ħω=0.350

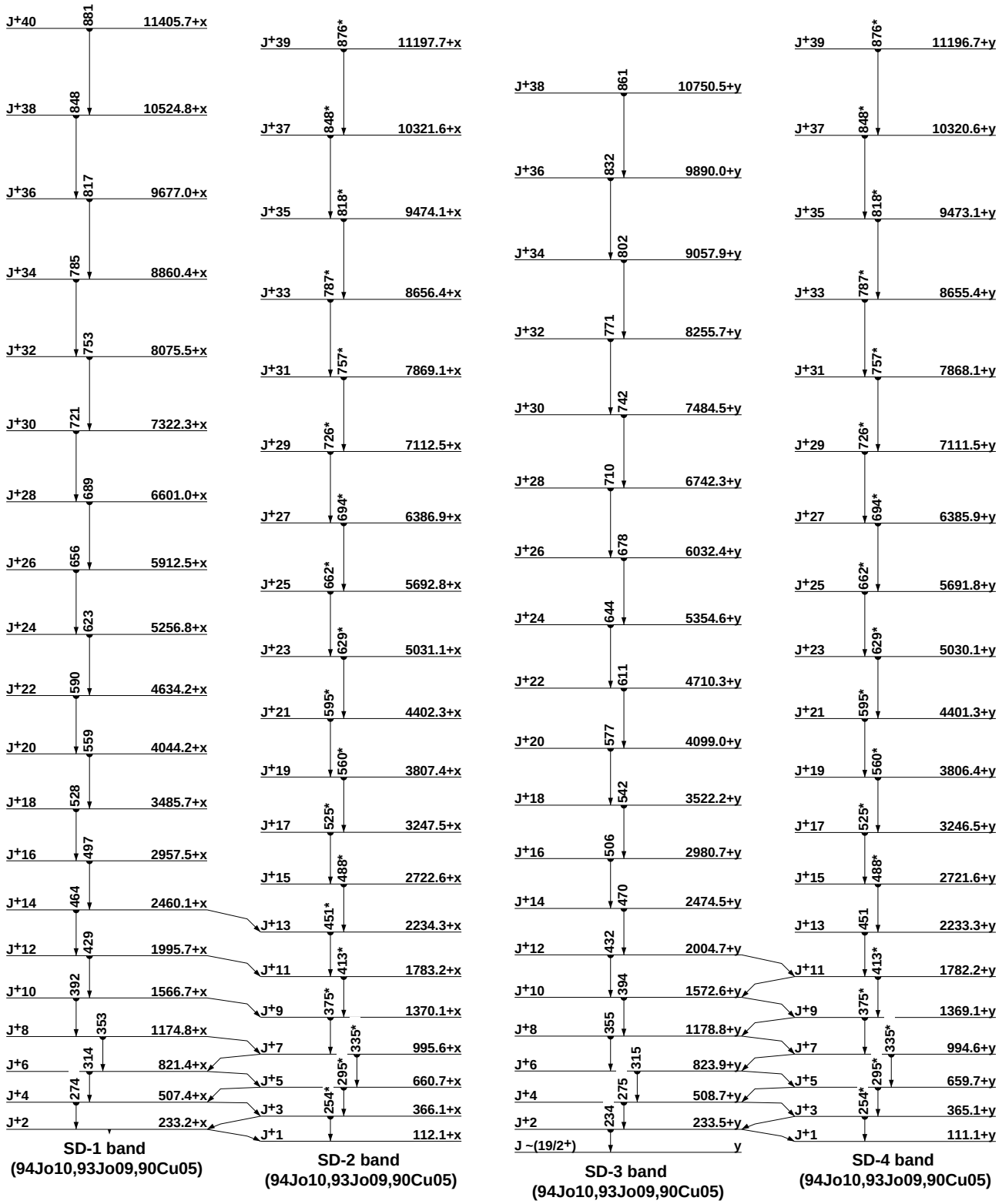
J **6299.8+u**, J+26 γ_{5581+u}***718.6*** *2*
(†$_\gamma$0.60 *6*) $I^{(2)}$=111.4, ħω=0.368

J **7054.3+u**, J+28 γ_{6300+u}***754.5*** *2*
$I^{(2)}$=113.3, ħω=0.386

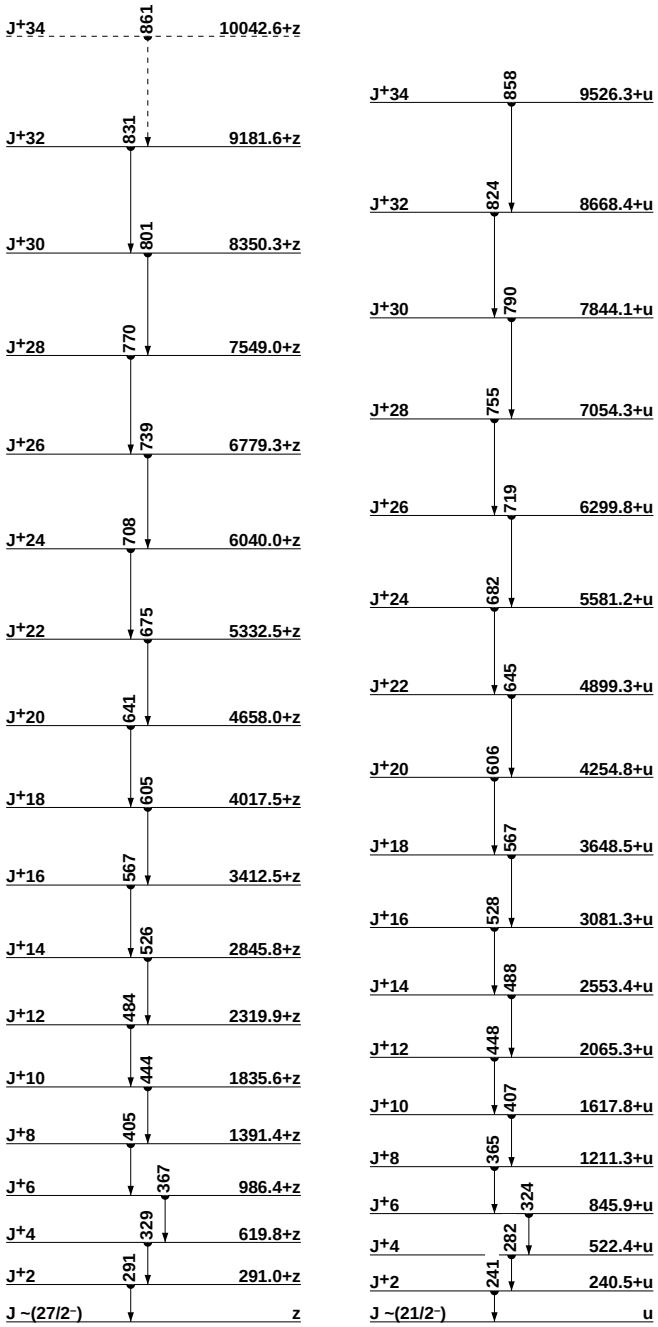
J **7844.1+u**, J+30 γ_{7054+u}***789.8*** *2*
(†$_\gamma$0.42 *5*) $I^{(2)}$=115.9, ħω=0.404

J **8668.4+u**, J+32 γ_{7844+u}***824.3*** *3*
(†$_\gamma$0.26 *5*) $I^{(2)}$=119.0, ħω=0.421

J **9526.3+u**, J+34 γ_{8668+u}***857.9*** *5*
(†$_\gamma$0.24 *5*)


J+40 881 11405.7+x
J+38 848 10524.8+x
J+36 817 9677.0+x
J+34 785 8860.4+x
J+32 753 8075.5+x
J+30 721 7322.3+x
J+28 689 6601.0+x
J+26 656 5912.5+x
J+24 623 5256.8+x
J+22 590 4634.2+x
J+20 559 4044.2+x
J+18 528 3485.7+x
J+16 497 2957.5+x
J+14 464 2460.1+x
J+12 429 1995.7+x
J+10 392 1566.7+x
J+8 353 1174.8+x
J+6 314 821.4+x
J+4 274 507.4+x
J+2 233.2+x
SD-1 band
(94Jo10,93Jo09,90Cu05)
J+39 876* 11197.7+x
J+37 848* 10321.6+x
J+35 818* 9474.1+x
J+33 787* 8656.4+x
J+31 757* 7869.1+x
J+29 726* 7112.5+x
J+27 694* 6386.9+x
J+25 662* 5692.8+x
J+23 629* 5031.1+x
J+21 595* 4402.3+x
J+19 560* 3807.4+x
J+17 525* 3247.5+x
J+15 488* 2722.6+x
J+13 451* 2234.3+x
J+11 413* 1783.2+x
J+9 375* 1370.1+x
J+7 335* 995.6+x
J+5 295* 660.7+x
J+3 254* 366.1+x
J+1 112.1+x
SD-2 band
(94Jo10,93Jo09,90Cu05)
J+38 861 10750.5+y
J+36 832 9890.0+y
J+34 802 9057.9+y
J+32 771 8255.7+y
J+30 742 7484.5+y
J+28 710 6742.3+y
J+26 678 6032.4+y
J+24 644 5354.6+y
J+22 611 4710.3+y
J+20 577 4099.0+y
J+18 542 3522.2+y
J+16 506 2980.7+y
J+14 470 2474.5+y
J+12 432 2004.7+y
J+10 394 1572.6+y
J+8 355 1178.8+y
J+6 315 823.9+y
J+4 275 508.7+y
J+2 234 233.5+y
J ~(19/2+) y
SD-3 band
(94Jo10,93Jo09,90Cu05)
J+39 876* 11196.7+y
J+37 848* 10320.6+y
J+35 818* 9473.1+y
J+33 787* 8655.4+y
J+31 757* 7868.1+y
J+29 726* 7111.5+y
J+27 694* 6385.9+y
J+25 662* 5691.8+y
J+23 629* 5030.1+y
J+21 595* 4401.3+y
J+19 560* 3806.4+y
J+17 525* 3246.5+y
J+15 488* 2721.6+y
J+13 451 2233.3+y
J+11 413* 1782.2+y
J+9 375* 1369.1+y
J+7 335* 994.6+y
J+5 295* 659.7+y
J+3 254* 365.1+y
J+1 111.1+y
SD-4 band
(94Jo10,93Jo09,90Cu05)

$^{193}_{80}$Hg



SD-5 band
(94Jo10,93Jo09,90Cu05)

SD-6 band
(94Jo10)

$^{193}_{80}$Hg