$^{192}_{80}$Hg

Δ: (–32100) **S_n:** (9500) **S_p:** (5500)
Q_{EC}: (700) **Q_α:** (3300)

Nuclear Bands

A GS band α=0
B α=1
C α=0
D α=0
E Band Structure
F α=0
G α=1
H α=0
I SD-1 band (92La07,94Ga07,95Fa03)
J SD-2 band (95Fa03,95Ko17)
K SD-3 band (95Fa03)

Levels and γ-ray branchings:

A **0**, 0^+, 4.85 *20* h, %EC=100

A **422.8** *1*, 2^+ γ_0***422.8*** *1* (†$_\gamma$100) E2

A **1057.6** *2*, 4^+ γ_{423}***634.8*** *1* (†$_\gamma$100) E2
1113.6 *2*, 2^+ γ_{423}***690.8*** *1* (†$_\gamma$100 *6*) M1+E2: δ=1.7 $^{+5}_{-3}$ γ_0***1113.0*** (†$_\gamma$24.3 *12*) E2
1535.6 *2*, 3^+ γ_{1058}***477.6*** *3* (†$_\gamma$12.3 *14*) M1(+E2): δ=0.5 *5* γ_{423}***1113.0*** *2* (†$_\gamma$100 *5*) M1
1733.0 *2*, $(4)^+$ γ_{1114}***619.4*** *2* (†$_\gamma$84 *4*) E2
γ_{1058}***675.4*** *1* (†$_\gamma$100 *6*) M1+E2: δ=0.7 $^{+3}_{-2}$

A **1803.1** *2*, 6^+ γ_{1058}***745.5*** *1* (†$_\gamma$100) E2
1831.6 *2*, (3,4) γ_{1114}***717.9*** *3* (†$_\gamma$100.0 *14*) γ_{1058}***774.1*** *2* (†$_\gamma$74 *5*)

B **1843.9** *2*, $(5)^-$ γ_{1058}***786.3*** *1* (†$_\gamma$100) E1
1844.6 *3*, (3,4) γ_{423}***1421.8*** *2* (†$_\gamma$100)
1908.6 *3*, $1,2^+$ γ_{423}***1486.1*** *4* (†$_\gamma$76 *8*) γ_0***1908.4*** *3* (†$_\gamma$100 *7*)

B **1977.1** *2*, $(7)^-$, 1.04 *6* ns γ_{1844}***133.1*** *1* (†$_\gamma$42.5 *16*) E2 γ_{1803}***174.0*** *1* (†$_\gamma$100 *4*) E1
2056.3 *3*, $(1,2^+)$ γ_{423}***1633.5*** *2* (†$_\gamma$100 *7*) γ_0***2056.0*** *6* (?) (†$_\gamma$<56)
2081.7 *3*, $(1,2^+)$ γ_{423}***1658.9*** *2* (†$_\gamma$100 *8*) γ_0***2081.9*** *6* (?) (†$_\gamma$3.5 *13*)
2187.0 *3*, $(6)^-$ γ_{1844}***343.1*** *2* (†$_\gamma$35 *13*) M1 γ_{1803}***383.9*** *2* (†$_\gamma$100 *13*) E1

C **2216.3** *3*, $(8)^-$, 0.92 *5* ns γ_{1977}***239.2*** *2* (†$_\gamma$100) M1+E2: δ=1.2 *6*

B **2223.9** *3*, $(9)^-$ γ_{1977}***246.8*** *2* (†$_\gamma$100) E2
2276.9 *3*, $1,2^+$ γ_{423}***1854.0*** *4* (†$_\gamma$100 *9*) γ_0***2277.0*** *6* (†$_\gamma$57 *9*)
2284.7 *4* γ_{1114}***1171.1*** *4* (†$_\gamma$100)
2300.8 *3*, $(6,7,8)^-$ γ_{1977}***323.7*** *2* (†$_\gamma$100) M1+E2: δ=0.74 *17*

D **2447.2** *3*, $(8)^+$ γ_{1803}***644.1*** *2* (†$_\gamma$100) E2

D **2507.3** *3*, $(10)^+$, 3.6 *5* ns γ_{2447}***60.1*** *3* (†$_\gamma$≈2.2) E2 γ_{2224}***283.4*** *2* (†$_\gamma$100 *20*) (E1)
2534.6 *4* (?) γ_{1536}***999.0*** *3* (?) (†$_\gamma$100)

D **2535.6** *3*, $(12)^+$, 11.1 *5* ns γ_{2507}***28.4*** *3* (†$_\gamma$100) E2

C **2632.7** *3*, $(10)^-$ γ_{2224}***408.8*** *2* (†$_\gamma$38) γ_{2216}***416.5*** *2* (†$_\gamma$100) E2
2657 (?) γ_{1803}***854*** (?) (†$_\gamma$100)

B **2756.8** *3*, $(11)^-$ γ_{2224}***532.9*** *2* (†$_\gamma$100) E2

D **2951.8** *3*, $(14)^+$ γ_{2536}***416.3*** *2* (†$_\gamma$100) E2

E **3047.0** *3*, (12^+) γ_{2536}***511.3*** *3* γ_{2507}***539.7*** *3* E2

C **3261.9** *3*, $(12)^-$ γ_{2757}***505.2*** *3* (†$_\gamma$3.8) γ_{2633}***629.2*** *2* (†$_\gamma$100) E2

B **3449.7** *3*, $(13)^-$ γ_{2757}***692.9*** *2* (†$_\gamma$100) E2

D **3608.7** *4*, $(16)^+$ γ_{2952}***656.8*** *2* (†$_\gamma$100) E2

E **3669.9** *4*, (14^+) γ_{3047}***622.7*** *3* (†$_\gamma$100) E2
γ_{2952}***718.4*** *3* (†$_\gamma$63)
3725.7 *4*, (14^+) γ_{3047}***678.7*** *3* (†$_\gamma$100) E2

F **3894.9** *3*, $(14)^-$ γ_{3450}***445.2*** *3* (†$_\gamma$3.8) γ_{3262}***633.0*** *2* (†$_\gamma$100) E2

G **4010.5** *3*, $(15)^-$ γ_{3450}***560.9*** *2* (†$_\gamma$100) E2 γ_{2952}***1058.7*** *3* (†$_\gamma$24)

F **4090.0** *3*, $(16)^-$, 0.39 *4* ns γ_{3895}***195.0*** *2* (†$_\gamma$100) E2

E **4130.7** *4*, (16^+) γ_{3726}***405.0*** *3* (†$_\gamma$26) E2 γ_{3670}***460.9*** *3* (†$_\gamma$100) E2 γ_{3609}***521.9*** *3* (†$_\gamma$30)

G **4216.9** *4*, $(17)^-$ γ_{4090}***126.9*** *3* (†$_\gamma$33) γ_{4011}***206.5*** *3* (†$_\gamma$100) E2

F **4387.7** *4*, $(18)^-$ γ_{4090}***297.7*** *3* (†$_\gamma$100) E2

D **4389.5** *4*, $(18)^+$ γ_{3609}***780.8*** *2* (†$_\gamma$100) E2

G **4588.4** *4*, $(19)^-$ γ_{4388}***200.7*** *3* (†$_\gamma$8.2) γ_{4217}***371.5*** *2* (†$_\gamma$100) E2

E **4741.7** *4*, (18^+) γ_{4131}***611.0*** *2* (†$_\gamma$100) (E2)

F **4950.5** *5*, $(20)^-$ γ_{4388}***562.8*** *3* (†$_\gamma$100) E2

H **5130.8** *5*, $(20)^+$ γ_{4390}***741.3*** *2* (†$_\gamma$100) E2

G **5216.0** *4*, (21^-) γ_{4588}***627.6*** *2* (†$_\gamma$100) (E2)

D **5271.7** *5*, (20^+) γ_{4390}***882.2*** *3* (†$_\gamma$100)

E **5316.5** *5*, (20^+) γ_{4742}***574.8*** *3* (†$_\gamma$100) E2

F **5655.2** *6*, $(22)^-$ γ_{4951}***704.7*** *3* (†$_\gamma$100) E2

H **5700.7** *5*, $(22)^+$ γ_{5131}***569.9*** *2* (†$_\gamma$100) E2

E **5787.9** *6*, (22^+) γ_{5317}***471.4*** *3* (†$_\gamma$100) (E2)

G **6012.2** *5*, (23^-) γ_{5216}***796.2*** *3* (†$_\gamma$100) E2

H **6428.2** *6*, $(24)^+$ γ_{5701}***727.5*** *3* (†$_\gamma$100) E2

F **6437.5** *7*, (24^-) γ_{5655}***782.3*** *3* (†$_\gamma$100)

G **6855.0** *6* (?), (25^-) γ_{6012}***842.8*** *3* (?) (†$_\gamma$100)

I **x**, J≈(8)

I **214.4+x**, J+2, <77 ps γ_{x}***214.4*** *3* (†$_{\gamma}$0.08 *2*) (E2) I$^{(2)}$*=92.2, ħω=0.118*

I **472.2+x**, J+4, 3.7 *7* ps γ_{214+x}***257.8*** *1* (†$_{\gamma}$0.88 *5*) (E2) I$^{(2)}$*=94.6, ħω=0.139*

I **772.3+x**, J+6, 1.74 *19* ps γ_{472+x}***300.1*** *1* (†$_{\gamma}$1.01 *5*) (E2) I$^{(2)}$*=96.9, ħω=0.160*

I **1113.7+x**, J+8, 0.84$^{+17}_{-26}$ *ps* γ_{772+x}***341.4*** *1* (†$_{\gamma}$1.07 *6*) (E2) I$^{(2)}$*=99.5, ħω=0.181*

I **1495.3+x**, J+10, 0.48$^{+27}_{-18}$ *ps* γ_{1114+x}***381.6*** *1* (†$_{\gamma}$1.04 *5*) (E2) I$^{(2)}$*=101.3, ħω=0.201*

I **1916.4+x**, J+12 γ_{1495+x}***421.1*** *2* (E2) I$^{(2)}$*=106.1, ħω=0.220*

I **2375.2+x**, J+14, 0.18$^{+4}_{-5}$ *ps* γ_{1916+x}***458.8*** *2* (†$_{\gamma}$1.08 *6*) (E2) I$^{(2)}$*=107.5, ħω=0.239*

I **2871.2+x**, J+16, 0.137$^{+15}_{-25}$ *ps* γ_{2375+x}***496.0*** *2* (†$_{\gamma}$0.94 *6*) (E2) I$^{(2)}$*=110.8, ħω=0.257*

I **3403.3+x**, J+18, 0.093$^{+9}_{-16}$ *ps* γ_{2871+x}***532.1*** *2* (†$_{\gamma}$0.88 *5*) (E2) I$^{(2)}$*=113.3, ħω=0.275*

I **3970.7+x**, J+20, 0.068$^{+8}_{-13}$ *ps* γ_{3403+x}***567.4*** *2* (†$_{\gamma}$0.69 *4*) (E2) I$^{(2)}$*=116.6, ħω=0.292*

I **4572.4+x**, J+22, 0.062 *8* ps γ_{3971+x}***601.7*** *2* (†$_{\gamma}$0.71 *4*) (E2) I$^{(2)}$*=120.5, ħω=0.309*

I **5207.3+x**, J+24, 0.050$^{+8}_{-15}$ *ps* γ_{4572+x}***634.9*** *2* (E2) I$^{(2)}$*=120.5, ħω=0.326*

I **5875.4+x**, J+26, 0.031$^{+7}_{-10}$ *ps* γ_{5207+x}***668.1*** *2* (†$_{\gamma}$0.55 *5*) (E2) I$^{(2)}$*=125.0, ħω=0.342*

I **6575.5+x**, J+28, 0.032$^{+7}_{-10}$ *ps* γ_{5875+x}***700.1*** *2* (†$_{\gamma}$0.49 *6*) (E2) I$^{(2)}$*=127.4, ħω=0.358*

I **7307.0+x**, J+30, 0.021$^{+8}_{-21}$ *ps* γ_{6576+x}***731.5*** *2* (†$_{\gamma}$0.42 *6*) (E2) I$^{(2)}$*=129.9, ħω=0.373*

I **8069.3+x**, J+32, 0.019$^{+9}_{-19}$ *ps* γ_{7307+x}***762.3*** *3* (†$_{\gamma}$0.31 *5*) (E2) I$^{(2)}$*=131.6, ħω=0.389*

I **8862.0+x**, J+34 γ_{8069+x}***792.7*** *4* (†$_{\gamma}$0.29 *4*) (E2) I$^{(2)}$*=132.5, ħω=0.404*

I **9684.9+x**, J+36 γ_{8862+x}***822.9*** *4* (†$_{\gamma}$0.06 *2*) (E2) I$^{(2)}$*=132.5, ħω=0.419*

I **10538.0+x**, J+38 γ_{9685+x}***853.1*** *5* (†$_{\gamma}$0.03 *1*) I$^{(2)}$*=112.4, ħω=0.435*

I **11426.7+x** (?), J+40 $\gamma_{10538+x}$***888.7*** *7* (?) (†$_{\gamma}$<0.05)

J **y**, J≈(10)

J **241.2+y**, J+2 γ_{y}***241.2*** I$^{(2)}$*=97.1, ħω=0.131*

J **523.6+y**, J+4 γ_{241+y}***282.4*** *2* (†$_{\gamma}$0.71 *8*) I$^{(2)}$*=100.8, ħω=0.151*

J **845.7+y**, J+6 γ_{524+y}***322.1*** *2* (†$_{\gamma}$1.03 *8*) I$^{(2)}$*=102.0, ħω=0.171*

J **1207.0+y**, J+8 γ_{846+y}***361.3*** *2* (†$_{\gamma}$1.00 *7*) I$^{(2)}$*=102.8, ħω=0.190*

J **1607.2+y**, J+10 γ_{1207+y}***400.2*** *2* (†$_{\gamma}$0.99 *6*) I$^{(2)}$*=105.8, ħω=0.210*

J **2045.2+y**, J+12 γ_{1607+y}***438.0*** *2* (†$_{\gamma}$0.96 *6*) I$^{(2)}$*=107.5, ħω=0.228*

J **2520.4+y**, J+14, 0.14 *4* ps γ_{2045+y}***475.2*** *2* (†$_{\gamma}$0.97 *7*) I$^{(2)}$*=111.7, ħω=0.247*

J **3031.4+y**, J+16, 0.15$^{+5}_{-3}$ *ps* γ_{2520+y}***511.0*** *2* (†$_{\gamma}$1.08 *7*) I$^{(2)}$*=112.0, ħω=0.264*

J **3578.1+y**, J+18, 0.100 *14* ps γ_{3031+y}***546.7*** *2* (†$_{\gamma}$1.03 *6*) I$^{(2)}$*=124.6, ħω=0.281*

J **4156.9+y**, J+20, 0.064 *8* ps γ_{3578+y}***578.8*** *2* (†$_{\gamma}$0.91 *7*) I$^{(2)}$*=156.2, ħω=0.296*

J **4761.3+y**, J+22, 0.052$^{+6}_{-7}$ *ps* γ_{4157+y}***604.4*** *2* (†$_{\gamma}$0.82 *7*) I$^{(2)}$*=202.0, ħω=0.307*

J **5385.5+y**, J+24, 0.044 *6* ps γ_{4761+y}***624.2*** *3* (†$_{\gamma}$0.55 *8*) I$^{(2)}$*=142.9, ħω=0.319*

J **6037.7+y**, J+26 γ_{5386+y}***652.2*** *3* (†$_{\gamma}$0.65 *8*) I$^{(2)}$*=124.6, ħω=0.334*

J **6722.0+y**, J+28 γ_{6038+y}***684.3*** *3* (†$_{\gamma}$0.50 *8*) I$^{(2)}$*=119.8, ħω=0.350*

J **7439.7+y**, J+30 γ_{6722+y}***717.7*** *3* (†$_{\gamma}$0.30 *7*) I$^{(2)}$*=124.6, ħω=0.367*

J **8189.5+y**, J+32 γ_{7440+y}***749.8*** *4* (†$_{\gamma}$0.19 *4*) I$^{(2)}$*=120.1, ħω=0.383*

J **8972.6+y**, J+34 γ_{8190+y}***783.1*** *5* (†$_{\gamma}$0.12 *3*) I$^{(2)}$*=111.4, ħω=0.401*

J **9791.6+y**, J+36 γ_{8973+y}***819*** *1* (?)

K **z**, J

K **333.1+z**, J+2 γ_{z}***333.1*** *3* (†$_{\gamma}$0.66 *7*) I$^{(2)}$*=100.8, ħω=0.176*

K **705.9+z**, J+4 γ_{333+z}***372.8*** *2* (†$_{\gamma}$1.13 *8*) I$^{(2)}$*=101.8, ħω=0.196*

K **1118.0+z**, J+6 γ_{706+z}***412.1*** *2* (†$_{\gamma}$0.90 *9*) I$^{(2)}$*=103.9, ħω=0.216*

K **1568.6+z**, J+8 γ_{1118+z}***450.6*** *3* (†$_{\gamma}$0.95 *8*) I$^{(2)}$*=106.1, ħω=0.235*

K **2056.9+z**, J+10 γ_{1569+z}***488.3*** *3* (†$_{\gamma}$0.97 *8*) I$^{(2)}$*=107.5, ħω=0.253*

K **2582.4+z**, J+12 γ_{2057+z}***525.5*** *4* (†$_{\gamma}$0.80 *8*) I$^{(2)}$*=110.5, ħω=0.272*

K **3144.1+z**, J+14 γ_{2582+z}***561.7*** *4*

($\dagger_\gamma$0.44 *7*) $I^{(2)}$*=112.4, ħω=0.290*

K **3741.4+z**, J+16 γ_{3144+z}***597.3*** *4*

($\dagger_\gamma$0.50 *7*) $I^{(2)}$*=122.0, ħω=0.307*

K **4371.5+z**, J+18 γ_{3741+z}***630.1*** *5*

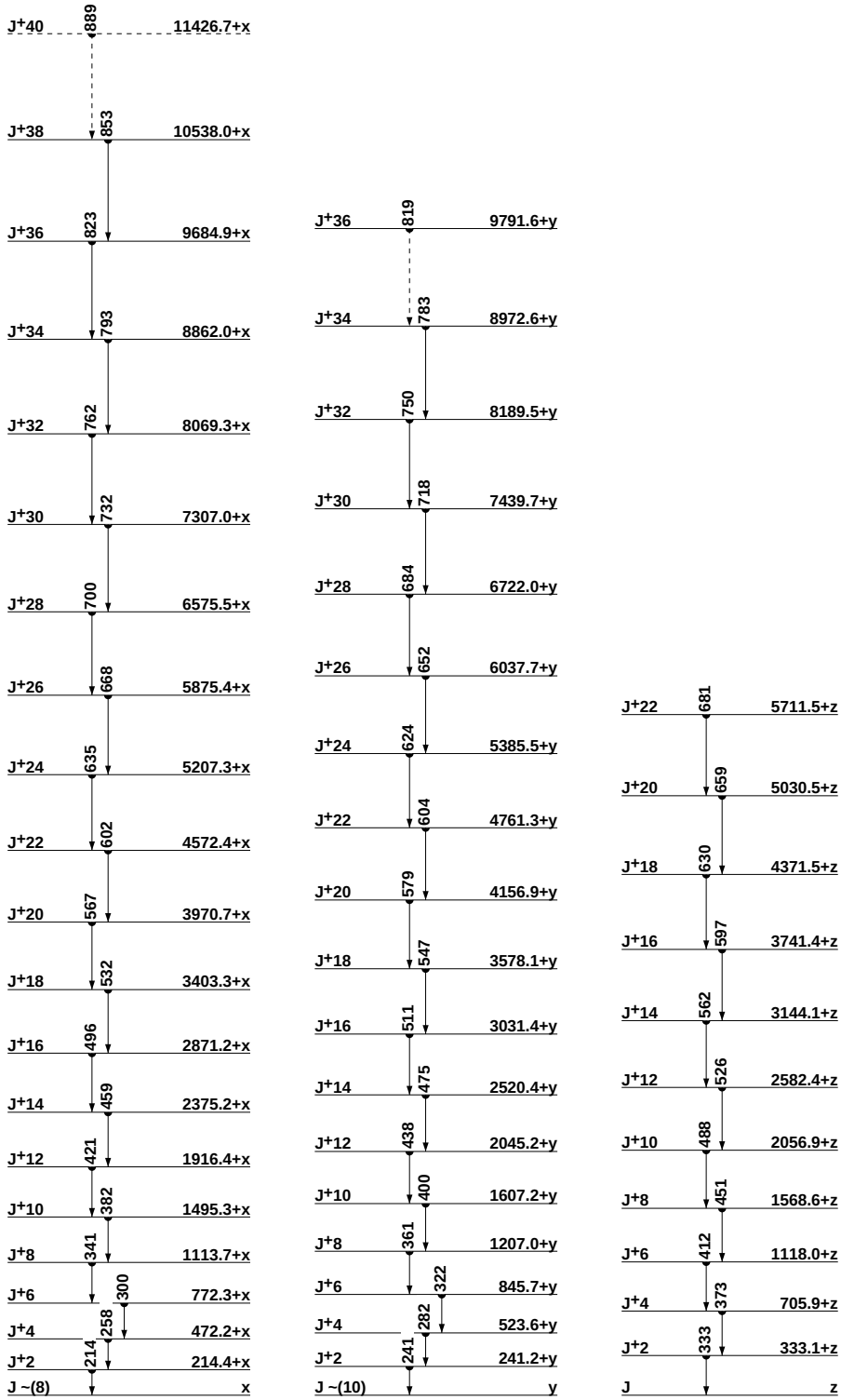
$I^{(2)}$*=138.4, ħω=0.322*

K **5030.5+z**, J+20 γ_{4372+z}***659.0*** *8*

($\dagger_\gamma$0.20 *4*) $I^{(2)}$*=181.8, ħω=0.335*

K **5711.5+z**, J+22 γ_{5031+z}***681.0*** *15*

($\dagger_\gamma$0.15 *6*)



SD-1 band
(92La07,94Ga07,95Fa03)

SD-2 band
(95Fa03,95Ko17)

SD-3 band
(95Fa03)

$^{192}_{80}$Hg