Adopted Levels, Gammas

History Type	Author	Citation	Literature Cutoff Date
Full Evaluation	Coral M. Baglin	NDS 113,1871 (2012)	15-Jun-2012

Q(β^-)=−6.14×10^3 *4*; S(n)=9.49×10^3 *3*; S(p)=5.49×10^3 *4*; Q(α)=3393 *17* 2012Wa38
Note: Current evaluation has used the following Q record −6140 35 *9490* 27 *5490* 40 *3392* 17 2003Au03,2011AuZZ.
Q(β^-), Q(α): from 2011AuZZ (cf. −6140 *40* and 3387 *16* from 2003Au03).
Additional information 1.
3×10^{-5}% limit set for population of ^{192}Hg by ^{196}Pb α decay (1963Ka17).
See 1985Kl09, 1986Ul02 for hfs and isotope shift data.
Theory (partial list only):
Calculations using Coulomb and proximity potential model: $T_{1/2}$ for g.s. α and cluster decay (2010Sa39).

^{192}Hg Levels

Cross Reference (XREF) Flags

A	^{192}Tl ε decay (9.6 min+10.8 min)	D	(HI,xnγ)
B	^{192}Pt(α,4nγ), ^{194}Pt(α,6nγ)	E	^{160}Gd(^{36}S,4nγ)
C	^{197}Au(p,6nγ)	F	(HI,xnγ):SD

E(level)[†]	J$^\pi$[‡]	$T_{1/2}$[#]	XREF	Comments
0.0[a]	0$^+$[b]	4.85 h *20*	ABCDEF	%ε=100 Δ<r^2>(^{192}Hg−^{198}Hg)=−0.2405 *14* (1986Ul02). <r^2>$^{1/2}$(charge)=5.423 *4* (2004An14). %α<4×10^{-6} (1963Ka17). Other: 1961Fo06. $T_{1/2}$: from 1961Ja10. Other value: 5.7 h *5* (1952Fi06).
422.79[a] *10*	2$^+$[b]		ABCDEF	J$^\pi$: E2 423γ to 0$^+$ g.s.
1057.58[a] *14*	4$^+$[b]		ABCDEF	J$^\pi$: E2 635γ to 2$^+$ 423; member of g.s. band.
1113.60 *14*	(2)$^+$		A	J$^\pi$: M1+E2 691γ to 2$^+$; D,E2 1113γ to 0$^+$ g.s.; J=2 favored by analogy with ^{194}Hg.
1535.2 *4*	(3)$^+$		A	J$^\pi$: M1(+E2) 478γ to 4$^+$ 1058; M1,E2 1113γ to 2$^+$ 423; J=3 favored by analogy with ^{194}Hg.
1732.98 *16*	(4)$^+$		A	J$^\pi$: M1+E2 675γ to 4$^+$ 1058; E2 619γ to (2)$^+$ 1114.
1803.05[a] *16*	6$^+$[b]		ABCDEF	J$^\pi$: E2 746γ to 4$^+$ 1058; member of g.s. band.
1831.62 *21*	(2$^+$,3,4$^+$)		A	J$^\pi$: 718γ to (2)$^+$ 1114, 774γ to 4$^+$ 1058.
1843.90[c] *16*	(5)$^-$		ABCDEF	J$^\pi$: E1 786γ to 4$^+$ 1058; J=5 required by band assignment and by analogy to ^{194}Hg.
1844.59 *23*	(3,4)		A	J$^\pi$: 1422γ to 2$^+$ 423; J=3,4 favored by I(1421γ, low-J decay):I(1421γ, high-J decay) in ^{192}Tl ε decay (1981So09).
1908.58 *25*	1,2$^+$		A	J$^\pi$: 1908γ to 0$^+$ g.s.; 1486γ to 2$^+$ 423.
1977.03[c] *17*	(7)$^-$	1.04 ns *6*	AB DEF	J$^\pi$: E1 174γ to 6$^+$ 1803; stretched Q 133γ to (5)$^-$ 1844. $T_{1/2}$: (α)(ce)(t) in (α,4nγ), (α,6nγ) (1978Me11). Other value: 2.5 ns *10* (1975Li16) in (α,xnγ).
1986.9?[d] *11*	(6$^-$)		E	J$^\pi$: D intraband 143γ to (5)$^-$ 1844; band assignment.
2056.29 *23*	(1,2$^+$)		A	J$^\pi$: 1633γ to 2$^+$ 423; possible 2056γ to 0$^+$ g.s.
2081.69 *23*	(1,2$^+$)		A	J$^\pi$: 1659γ to 2$^+$ 423; possible 2082γ to 0$^+$ g.s.
2186.98 *21*	(6)$^-$		A	J$^\pi$: E1 384γ to 6$^+$ 1803; M1 343γ to (5)$^-$ 1844; J=6 favored in (^{36}S,4nγ).
2216.20[d] *24*	(8)$^-$	0.92 ns *5*	AB DEF	J$^\pi$: M1+E2 239γ to (7)$^-$ 1977; band assignment. $T_{1/2}$: (α)(ce)(t) in (α,4nγ), (α,6nγ) (1978Me11).
2223.85[c] *24*	(9)$^-$		AB DEF	J$^\pi$: E2 247γ to (7)$^-$ 1977; band assignment.
2276.9 *4*	1,2$^+$		A	J$^\pi$: 2277γ to 0$^+$ g.s., 1854γ to 2$^+$ 423.
2284.7 *5*			A	J$^\pi$: 1171γ to (2)$^+$ so J≤(4).

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Adopted Levels, Gammas (continued)

^{192}Hg Levels (continued)

E(level)[†]	Jπ[‡]	$T_{1/2}$[#]	XREF	Comments
2300.7 *3*	$(6,7,8)^-$		A	Jπ: M1+E2 324γ to $(7)^-$ 1977.
2447.2[a] *3*	8^+[b]		AB DEF	
2507.3 *3*	$(10)^+$	3.6 ns *5*	B DEF	Jπ: E2 60γ to 8^+ 2447; D 283γ to $(9)^-$ 2224. $T_{1/2}$: ce(t), γγ(t) in (α,4nγ), (α,6nγ) (1983Gu05). Other values: 16 ns *3* (1975Li16), 15.9 ns *10* (1978Me11) in (α,xnγ) (superposition of $T_{1/2}$ for 2507 and 2535 levels).
2534.2? *5*			A	Jπ: possible 999γ to $(3)^+$.
2535.5[e] *4*	(12^+)	11.1 ns *5*	B DE	$T_{1/2}$: ce(t), γγ(t) in ^{192}Pt(α,4nγ), ^{194}Pt(α,6nγ) (1983Gu05). See also comment on $T_{1/2}$ for 2507 level.
2632.7[d] *3*	(10^-)		B DE	
2657.1? *11*			C	
2756.7[c] *3*	(11^-)		B DE	
2902.3 *11*	(10^+)		E	
2951.7[e] *4*	(14^+)		B DE	
3047.0[f] *4*	(12^+)		DE	
3261.9[d] *3*	(12^-)		B DE	
3449.6[c] *4*	(13^-)		B DE	
3608.6[e] *5*	(16^+)		B DE	
3669.8[f] *4*	(14^+)		DE	
3725.6 *5*	(14^+)		DE	
3894.9[g] *4*	(14^-)		B DE	
3984.9[d] *8*	(14^-)		E	
4010.5[h] *4*	(15^-)		B DE	
4089.9[g] *4*	(16^-)	0.39 ns *4*	B DE	$T_{1/2}$: (α)(ce)(t) in ^{192}Pt(α,4nγ), ^{194}Pt(α,6nγ) (1978Me11).
4130.6[f] *5*	(16^+)		DE	
4216.9[h] *4*	(17^-)		B DE	
4387.7[g] *5*	(18^-)		B DE	
4389.4[e] *5*	(18^+)		B DE	
4519.8[m] *10*	(17^-)		E	
4588.4[h] *4*	(19^-)		DE	
4741.6[f] *5*	(18^+)		DE	
4950.5[g] *5*	(20^-)		DE	
5021.6[m] *10*	(19^-)		E	
5130.7[i] *5*	(20^+)		B DE	
5216.0[h] *5*	(21^-)		DE	
5271.6[e] *6*	(20^+)		DE	
5316.5[f] *6*	(20^+)		DE	
5543.5[m] *7*	(21^-)		E	
5587.1 *8*	(20^+)		E	
5655.2[g] *6*	$(22)^-$		DE	
5700.6[i] *6*	$(22)^+$		DE	
5787.9[f] *6*	(22^+)		DE	
6012.2[h] *6*	(23^-)		DE	
6112.6[e] *9*	(22^+)		E	
6125.5[m] *8*	(23^-)		E	
6233.6 *12*	(22^+)		E	
6294.6 *10*	(22^+)		E	
6303.3[n] *9*	(22^+)		E	
6428.1[i] *6*	$(24)^+$		DE	

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Adopted Levels, Gammas (continued)

^{192}Hg Levels (continued)

E(level)[†]	J$^{\pi}$[‡]	T$_{1/2}$[#]	XREF	Comments
6432.8[n] *11*	(23$^+$)	10 ps *+4 −3*	E	
6437.6[g] *7*	(24$^-$)		DE	
6709.4[n] *11*	(24$^+$)	14 ps *+3−4*	E	
6855.0[h] *6*	(25$^-$)		DE	
6878.4[o] *11*	(23$^-$)		E	
6949.2[m] *10*	(25$^-$)		E	
7035.3[o] *10*	(24$^-$)		E	
7043.3[n] *12*	(25$^+$)	0.7 ps *+7−11*	E	T$_{1/2}$: this value appears to have been misprinted.
7267.6[g] *12*	(26$^-$)		E	
7272.5[o] *8*	(25$^-$)		E	
7320.1[i] *12*	(26$^+$)		E	
7434.9[n] *13*	(26$^+$)	2.5 ps *+13−7*	E	
7516.1[o] *9*	(26$^-$)		E	
7684.9 *9*	(25$^-$,26$^-$)		E	J$^{\pi}$: Q 1247γ to (24$^-$) 6438; 413γ to (25$^-$) 7273; 103γ from (27$^-$) 7788.
7722.0[h] *12*	(27$^-$)		E	
7787.8[o] *8*	(27$^-$)		E	
7819.6[m] *10*	(27$^-$)		E	
7838.4 *11*	(27$^-$)		E	J$^{\pi}$: Q 889γ to (25$^-$) 6949; γ from (28$^-$).
7926.7[o] *10*	(28$^-$)		E	
7959.0[n] *14*	(27$^+$)	1.2 ps *10*	E	
8180.7 *16*	(28$^+$)		E	
8194.6[g] *16*	(28$^-$)		E	
8207.6 *16*	(28$^-$)		E	
8224.3 *11*	(28$^-$)		E	
8263.5[o] *11*	(29$^-$)		E	
8302.6[n] *14*	(28$^+$)	0.5 ps *5*	E	
8331.1[i] *16*	(28$^+$)		E	
8543.2[o] *12*	(30$^-$)		E	
8631.0[h] *16*	(29$^-$)		E	
8693.0 *16*	(29$^-$)		E	
8712.6[n] *15*	(29$^+$)	0.14 ps *+49−14*	E	
8961.3[n] *15*	(30$^+$)	0.9 ps *4*	E	
8990.2[o] *13*	(31$^-$)		E	
9196.0[n] *16*	(31$^+$)	2.4 ps *+4−3*	E	
9375.9[n] *17*	(32$^+$)	1.5 ps *3*	E	
9443.4[o] *13*	(32$^-$)		E	
9666.0[n] *18*	(33$^+$)		E	
9932.8[o] *14*	(33$^-$)		E	
10038.0[n] *20*	(34$^+$)		E	
10464.4[o] *17*	(34$^-$)		E	
x[j]	J≈(8)[@]		F	E(level): x=5586 *500* (see comment for 214.4+x level).
214.4+x[j] *3*	J+2[@]	<77 ps	F	E(level),J$^{\pi}$: From the study of quasi-continuum γ-ray spectra, 2000La31 estimate level energy as 5800 *500* and J=9.7 *10* using data for ^{194}Hg SD-1 band as a reference. T$_{1/2}$: from RDDS (1994Wi06) in (HI,xnγ):SD. Q(transition)>6 (1994Wi06) in (HI,xnγ):SD.
472.2+x[j] *4*	J+4[@]	3.7 ps *+8−6*	F	T$_{1/2}$: RDDS (1994Wi06). Others: 3.1 ps *+10−6* (RDDS, 1994Le24); 3.1 ps *10* (RDDS, 1993De35). From (HI,xnγ):SD. Q(transition)=18.3 *16* (1994Wi06), 19.3 *+50−25* (1993De35) in (HI,xnγ):SD.

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Adopted Levels, Gammas (continued)

^{192}Hg Levels (continued)

E(level)[†]	Jπ[‡]	$T_{1/2}$[#]	XREF	Comments
				Q(transition)=18.3 *16* (1994Wi06), 19.3 *+50−25* (1993De35) in (HI,xnγ):SD.
772.3+x[j] *4*	J+6[@]	1.74 ps *+22−17*	F	$T_{1/2}$: RDDS (1994Wi06). Others: 2.0 ps *+8−6* (RDDS, 1994Le24); 2.1 ps *12* (RDDS, 1993De35). From (HI,xnγ):SD. Q(transition)=18.5 *10* (1994Wi06), 17.5 *+35−25* (1994Le24), 17 *+11−3* (1993De35) in (HI,xnγ):SD.
1113.7+x[j] *4*	J+8[@]	0.84 ps *+22−20*	F	$T_{1/2}$: from RDDS (1994Wi06) in (HI,xnγ):SD. Q(transition)=19.2 *+24−21* (1994Wi06) in (HI,xnγ):SD.
1495.3+x[j] *4*	J+10[@]	0.48 ps *+62−13*	F	$T_{1/2}$: from RDDS (1994Wi06) in (HI,xnγ):SD. Q(transition)=20 *+4−7* (1994Wi06) in (HI,xnγ):SD.
1916.4+x[j] *5*	J+12[@]		F	
2375.2+x[j] *5*	J+14[@]	0.18 ps *+5−4*	F	$T_{1/2}$: DSAM (1994Wi06). Other: 0.16 ps *5* (1990Mo16). From (HI,xnγ):SD. Q(transition)=20.7 *+31−25* (1994Wi06) in (HI,xnγ):SD.
2871.2+x[j] *5*	J+16[@]	0.137 ps *+17−21*	F	$T_{1/2}$: DSAM (1994Wi06). Others: 0.13 ps *3* (1990Mo16), 0.19 *3* (1998Bu03). From (HI,xnγ):SD. Q(transition)=19.3 *+17−11* (1994Wi06), 19.9 *+31−25* (1998Bu03). From (HI,xnγ):SD.
3403.3+x[j] *6*	J+18[@]	0.093 ps *+10−14*	F	$T_{1/2}$: DSAM (1994Wi06). Others: 0.089 ps *31* (1990Mo16); 0.13 *+2−3* (1998Bu03). From (HI,xnγ):SD. Q(transition)=19.6 *+17−11* (1994Wi06), 20.3 *+31−21* (1998Bu03). From (HI,xnγ):SD.
3970.7+x[j] *6*	J+20[@]	0.068 ps *+10−11*	F	$T_{1/2}$: DSAM (1994Wi06). Other: 0.058 ps *17* (1990Mo16). From (HI,xnγ):SD. Q(transition)=19.6 *+19−13* (1994Wi06) in (HI,xnγ):SD.
4572.4+x[j] *6*	J+22[@]	0.062 ps *+10−7*	F	$T_{1/2}$: DSAM (1994Wi06). Other: 0.055 ps *14* (1990Mo16). From (HI,xnγ):SD. Q(transition)=17.7 *12* (1994Wi06) in (HI,xnγ):SD.
5207.3+x[j] *7*	J+24[@]	0.050 ps *+10−12*	F	$T_{1/2}$: DSAM (1994Wi06). Other: 0.042 ps *17* (1990Mo16). From (HI,xnγ):SD. Q(transition)=17.4 *+24−15* (1994Wi06) in (HI,xnγ):SD.
5875.4+x[j] *7*	J+26[@]	0.031 ps *+9−8*	F	$T_{1/2}$: DSAM (1994Wi06). Other: 0.034 ps *9* (1990Mo16). From (HI,xnγ):SD. Q(transition)=19.3 *+29−23* (1994Wi06) in (HI,xnγ):SD.
6575.5+x[j] *7*	J+28[@]	0.032 ps *+9−8*	F	$T_{1/2}$: DSAM (1994Wi06). Other: 0.032 ps *14* (1990Mo16). From (HI,xnγ):SD. Q(transition)=16.9 *+15−20* (1994Wi06) in (HI,xnγ):SD.
7307.0+x[j] *8*	J+30[@]	0.021 ps *+11−21*	F	$T_{1/2}$: from DSAM (1994Wi06) in (HI,xnγ):SD. Q(transition)=19 +∞−4 (1994Wi06) in (HI,xnγ):SD.
8069.3+x[j] *8*	J+32[@]	0.019 ps *+18−19*	F	$T_{1/2}$: DSAM (1994Wi06). Other: <0.03 ps (1990Mo16). From (HI,xnγ):SD. Q(transition)=18 +∞−6 (1994Wi06) in (HI,xnγ):SD.
8862.0+x[j] *9*	J+34[@]		F	
9684.9+x[j] *10*	J+36[@]		F	
10538.0+x[j] *11*	J+38[@]		F	
11426.7+x?[j] *13*	J+40[@]		F	
y[k]	J1≈(10)[&]		F	
241.2+y[k] *10*	J1+2[&]		F	
523.6+y[k] *11*	J1+4[&]		F	
845.7+y[k] *11*	J1+6[&]		F	

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Adopted Levels, Gammas (continued)

^{192}Hg Levels (continued)

E(level)[†]	J$^{\pi}$[‡]	T$_{1/2}$[#]	XREF	Comments
1207.0+y[k] *11*	J1+8[&]		F	
1607.2+y[k] *11*	J1+10[&]		F	
2045.2+y[k] *11*	J1+12[&]		F	
2520.4+y[k] *12*	J1+14[&]	0.14 ps *4*	F	T$_{1/2}$: from DSAM (1995Ko17) in (HI,xnγ):SD. Q(transition)=22.1 *+29−30* (1995Ko17) in (HI,xnγ):SD.
3031.4+y[k] *12*	J1+16[&]	0.15 ps *+5−3*	F	T$_{1/2}$: from DSAM (1995Ko17) in (HI,xnγ):SD. Q(transition)=17.8 *+28−20* (1995Ko17) in (HI,xnγ):SD.
3578.1+y[k] *12*	J1+18[&]	0.100 ps *14*	F	T$_{1/2}$: from DSAM (1995Ko17) in (HI,xnγ):SD. Q(transition)=18.2 *13* (1995Ko17) in (HI,xnγ):SD.
4156.9+y[k] *12*	J1+20[&]	0.064 ps *8*	F	T$_{1/2}$: from DSAM (1995Ko17) in (HI,xnγ):SD. Q(transition)=19.4 *13* (1995Ko17) in (HI,xnγ):SD.
4761.3+y[k] *12*	J1+22[&]	0.052 ps *+6−7*	F	T$_{1/2}$: from DSAM (1995Ko17) in (HI,xnγ):SD. Q(transition)=19.4 *13* (1995Ko17) in (HI,xnγ):SD.
5385.5+y[k] *13*	J1+24[&]	0.044 ps *6*	F	T$_{1/2}$: from DSAM (1995Ko17) in (HI,xnγ):SD. Q(transition)=19.5 *13* (1995Ko17) in (HI,xnγ):SD.
6037.7+y[k] *13*	J1+26[&]		F	
6722.0+y[k] *13*	J1+28[&]		F	
7439.7+y[k] *14*	J1+30[&]		F	
8189.5+y[k] *14*	J1+32[&]		F	
8972.6+y[k] *15*	J1+34[&]		F	
9791.6+y?[k] *18*	J1+36[&]		F	
z[l]	J2		F	
333.1+z[l] *3*	J2+2		F	
705.9+z[l] *4*	J2+4		F	
1118.0+z[l] *5*	J2+6		F	
1568.6+z[l] *5*	J2+8		F	
2056.9+z[l] *6*	J2+10		F	
2582.4+z[l] *8*	J2+12		F	
3144.1+z[l] *9*	J2+14		F	
3741.4+z[l] *10*	J2+16		F	
4371.5+z[l] *11*	J2+18		F	
5030.5+z[l] *14*	J2+20		F	
5711.5+z[l] *20*	J2+22		F	

[†] From least-squares fit to adopted Eγ, allowing ΔE_{γ}=1 keV whenever authors failed to state the uncertainty in Eγ.

[‡] From γ-ray multipolarities, coincidence data, and band structure in (HI,xnγ) and ^{192}Pt(α,4nγ), ^{194}Pt(α,6nγ), except where noted; continuing J^{π} patterns established.

[#] For SD bands, values are from recoil distance Doppler shift (RDDS) and/or DSAM data in (HI,xnγ):SD. Values for other levels are from Doppler-shift recoil distance in ^{160}Gd(^{36}S,4nγ), unless noted to the contrary.

[@] From fit to expansions relating second moment of inertia and angular frequency (1990Be01).

[&] From fit to expansions relating second moment of inertia and angular frequency (1995Ko17), J≈(10) for E(level)=y.

[a] Band(A): g.s. band, π=+,α=0.

[b] Based on smooth progression of level energies and independently established J^{π}(g.s.) and mult(423γ), definite J^{π} has been assigned to all members of the g.s. band.

[c] Band(B): Band AE, π=−,α=1. 2-quasineutron band involving 1/2[660] and 1/2[521] Nilsson orbitals (1986Hu02).

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Adopted Levels, Gammas (continued)

^{192}Hg Levels (continued)

[d] Band(C): Band AF, π=−,α=0. 2-quasineutron band involving 1/2[660] and 1/2[521] Nilsson orbitals (1986Hu02).
[e] Band(D): Band AB, π=+,α=0. 2-quasineutron band involving 1/2[660] Nilsson orbital (1986Hu02).
[f] Band(E): π=+,α=0 vibrational band (1986Hu02,1994Le08). Quasivibrational terminating band.
[g] Band(F): Band ABCF, π=−,α=0. 4-quasineutron band involving 1/2[660], 3/2[651], 1/2[521] Nilsson orbitals (1986Hu02).
[h] Band(G): Band ABCE, π=−,α=1. 4-quasineutron band involving 1/2[660], 3/2[651], 1/2[521] Nilsson orbitals (1986Hu02).
[i] Band(H): Band ABCD, π=+,α=0 (1995Le33). 4-quasineutron band involving 1/2[660] and 3/2[651] Nilsson orbitals (1986Hu02).
[j] Band(I): SD-1 band (1992La07,1994Ga07,1995Fa03,1997Mo12,1998Bu03). Percent population ≈2.0 (1992La07, 1995Fa03), ≈1.6 (1995Ko17). Average Q(transition)=20 *2* (DSAM data, 1990Mo16), 18.6 *14* (1994Wi06, low-J states), 17.6 *10* (1997Mo12 text; 10%−15% uncertainty in stopping power not included), 20.2 *12* (1998Bu03). From experimental data, the bandhead (J=0 state) is estimated to lie at 5.2-6.2 MeV (1992La19); 1997Mo22 estimate that band lies 4.3 MeV *9* above yrast line at point of decay and that the average number of steps from SD states to yrast line is 3.2 *6*. Band exhibits integer alignment relative to SD-1 and SD-3 bands of ^{194}Hg for $\hbar\omega$≈0.2 MeV (1990St12) (identical bands). From the study of quasi-continuum γ-ray spectra, 2000La31 estimate level energy of 5800 *500* for the second member and J=9.7 *10*.
[k] Band(J): SD-2 band (1995Fa03,1995Ko17). Percent population=0.11 (1995Ko17), 0.2 (1995Fa03). Average Q(transition)=19.5 *15* (1995Ko17). Transition energies in this band are within 3 keV of those for the SD-2 band of ^{194}Hg for Eγ≤550; a band crossing occurs near $\hbar\omega$=0.3.
[l] Band(K): SD-3 band (1995Fa03). Percent population=0.1 (1995Fa03). Note that transition energies in this band lie within 0.3 keV of those for transitions in the SD-2 band of ^{191}Hg for $\hbar\omega$≤0.31.
[m] Band(L): Band ABDE (1994Le08,1995Le33). Possibly $((\nu\ i_{13/2})^3(\nu\ p_{3/2}))$.
[n] Band(M): π=(+) dipole band (1994Le08,1995Le33). Possibly $((\pi\ h_{9/2})^2)$K=8 coupled with $((\nu\ i_{13/2})^4)$J=20 or with $(((\nu\ i_{13/2})^2)$J=12$((\pi\ h_{11/2})^2)$J=10).
[o] Band(N): π=(−) dipole band (1994Le08,1995Le33). Possibly $((\pi\ h_{11/2})(\pi\ i_{13/2}))$K=11 coupled with $((\nu\ i_{13/2})^4)$J=20 or with $(((\nu\ i_{13/2})^2)$J=12$((\pi\ h_{11/2})^2)$J=10).

Adopted Levels, Gammas (continued)

γ(^{192}Hg)

E_i(level)	J_i^π	E_γ[†]	I_γ[‡]	E_f	J_f^π	Mult.[†]	δ[†]	α[i]	Comments
422.79	2^+	422.8 *1*	100	0.0	0^+	E2		0.0410	Mult.: stretched Q from γ(θ) in (HI,xnγ):SD; not M2 from K/L in (p,6nγ) and ^{192}Tl ε decay.
1057.58	4^+	634.8 *1*	100	422.79	2^+	E2		0.01550	
1113.60	$(2)^+$	690.8 *1*	100 *6*	422.79	2^+	M1+E2	1.7 *+5−3*	0.0197 *23*	
		1113.0[j] *2*	≈24[j]	0.0	0^+	(E2)			
1535.2	$(3)^+$	477.6 *3*	≈23	1057.58	4^+	M1(+E2)	0.4 *+5−4*	0.093 *23*	
		1113.0[j] *2*	≈100[j]	422.79	2^+	M1,E2			
1732.98	$(4)^+$	619.4 *2*	80 *12*	1113.60	$(2)^+$	E2		0.01637	
		675.4 *1*	100 *6*	1057.58	4^+	M1+E2	0.7 *+3−2*	0.032 *5*	
1803.05	6^+	745.5 *1*	100	1057.58	4^+	E2		0.01095	
1831.62	$(2^+,3,4^+)$	717.9 *3*	100.0[e] *14*	1113.60	$(2)^+$				
		774.1 *2*	71[e] *6*	1057.58	4^+				Other Iγ(774)/Iγ(718): 82 *12* from high-J ^{192}Tl ε decay.
1843.90	$(5)^-$	786.3 *1*	100	1057.58	4^+	E1			
1844.59	(3,4)	1421.8 *2*	100	422.79	2^+				
1908.58	$1,2^+$	1486.1 *4*	67[e] *8*	422.79	2^+				Other Iγ(1486):Iγ(1908)=104 *20*:100 *16* from ^{192}Tl ε decay.
		1908.4 *3*	100[e] *8*	0.0	0^+				
1977.03	$(7)^-$	133.1 *1*	42.4 *27*	1843.90	$(5)^-$	E2		1.740	B(E2)(W.u.)≈84
		174.0 *1*	100 *4*	1803.05	6^+	E1		0.1048	B(E1)(W.u.)≈3.7×10^{-5}
1986.9?	(6^-)	143[gk]	100[g]	1843.90	$(5)^-$	(M1)[g]		2.84	
2056.29	$(1,2^+)$	1633.5 *2*	100[e] *8*	422.79	2^+				
		2056.0[k] *6*	<58[e]	0.0	0^+				
2081.69	$(1,2^+)$	1658.9 *2*	100[e] *8*	422.79	2^+				
		2081.9[k] *6*	3.5[e] *13*	0.0	0^+				
2186.98	$(6)^-$	343.1 *2*	35[e] *13*	1843.90	$(5)^-$	M1		0.251	
		383.9 *2*	100[e] *13*	1803.05	6^+	E1		0.01579	Mult.: E1,M1 from K/L in (α,4nγ); E1,E2 from α(K)exp in ε decay.
2216.20	$(8)^-$	239.2 *2*	100	1977.03	$(7)^-$	M1+E2	0.64 *11*	0.54 *4*	B(M1)(W.u.)=0.00081 *10*; B(E2)(W.u.)=2.3 *6* δ: weighted average of 0.81 *15*, 1.1 *3* from ^{192}Tl ε decay (9.6 min+10.8 min) and 0.88 *16*, 0.50 *8* from ^{192}Pt(α,4nγ), ^{194}Pt(α,6nγ).
2223.85	$(9)^-$	246.8 *2*	100	1977.03	$(7)^-$	E2		0.194	
2276.9	$1,2^+$	1854.0 *4*	100 *9*	422.79	2^+				
		2277.0 *6*	56 *9*	0.0	0^+				
2284.7		1171.1 *4*	100	1113.60	$(2)^+$				
2300.7	$(6,7,8)^-$	323.7 *2*	100	1977.03	$(7)^-$	M1+E2	0.75 *+17−16*	0.218 *22*	
2447.2	8^+	470[h]		1977.03	$(7)^-$				Not observed in ε decay.

$^{192}_{80}Hg_{112}$-7

Adopted Levels, Gammas (continued)

γ(^{192}Hg) (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ[‡]	E_f	J_f^π	Mult.[†]	α[i]	Comments
2447.2	8^+	644.1 *2*	100 *18*	1803.05	6^+	(E2)	0.01501	Mult.: M1 from α(K)exp in ^{192}Tl ε decay, but stretched Q from $\gamma(\theta)$ in ^{170}Er(Mg,xnγ); establishes $\Delta\pi$=no.
2507.3	$(10)^+$	60.1	≤3	2447.2	8^+	E2	55.7	B(E2)(W.u.)=24 *+27−24* E_γ: from (α,xnγ). ΔE_γ unstated by authors; uncertainty in level energy difference is ≈0.4 keV. I_γ: from I(γ+ce) and α in ^{192}Pt(α,4nγ), ^{194}Pt(α,6nγ). Mult.: from (α,xnγ).
		283.4[b] *2*	100[c] *20*	2223.85	$(9)^-$	(E1)[d]	0.0318	B(E1)(W.u.)=1.3×10^{-6} *7*
2534.2?		999.0[k] *3*	100	1535.2	$(3)^+$			
2535.5	(12^+)	28.4	100	2507.3	$(10)^+$	(E2)	2.20×10^3	B(E2)(W.u.)=19 *4* E_γ,Mult.: from ^{192}Pt(α,4nγ), ^{194}Pt(α,6nγ). E_γ: uncertainty unstated by authors; Eγ=28.2 *5* from level energy difference.
2632.7	(10^-)	408.8[b] *2*	38[&]	2223.85	$(9)^-$	D[@]		
		416.5[b] *2*	100[&]	2216.20	$(8)^-$			
2657.1?		854[k]	100	1803.05	6^+			E_γ: from (p,6nγ).
2756.7	(11^-)	532.9[b] *2*	100	2223.85	$(9)^-$	(E2)[a]	0.0231	
2902.3	(10^+)	395[h]		2507.3	$(10)^+$			
2951.7	(14^+)	416.3[b] *2*	100	2535.5	(12^+)	(E2)[a]	0.0427	
3047.0	(12^+)	144[h]		2902.3	(10^+)			
		511.3[&] *3*		2535.5	(12^+)			E_γ: complex peak (wider than normal).
		539.7[&] *3*		2507.3	$(10)^+$	(E2)[&]	0.0224	
3261.9	(12^-)	505.2[&] *3*	3.8[&]	2756.7	(11^-)			
		629.2 *2*	100	2632.7	(10^-)	(E2)	0.01581	E_γ: Complex peak (wider than normal). Order of 629γ and 633γ in (α,4nγ) is the reverse of that adopted here.
3449.6	(13^-)	692.9[b] *2*	100	2756.7	(11^-)	(E2)[a]	0.01280	
3608.6	(16^+)	656.8[b] *2*	100	2951.7	(14^+)	(E2)[a]	0.01438	
3669.8	(14^+)	622.7 *3*	100	3047.0	(12^+)	(E2)	0.01618	E_γ,I_γ,Mult.: from ^{170}Er(Mg,xnγ); complex peak (wider than normal).
		718.4[&] *3*	63[&]	2951.7	(14^+)			
		1134[h]		2535.5	(12^+)	Q[@]		
3725.6	(14^+)	678.7[&] *3*	100	3047.0	(12^+)	(E2)[&]	0.01339	
		1190[h]		2535.5	(12^+)	Q[@]		
3894.9	(14^-)	445.2[&] *3*	3.8[&]	3449.6	(13^-)	D[@]		
		633.0[b] *2*	100[&]	3261.9	(12^-)	(E2)[a]	0.01560	Order of 629γ and 633γ in (α,4nγ) is the reverse of that adopted here.
3984.9	(14^-)	723[g]	100[g]	3261.9	(12^-)	(E2)[g]	0.01169	

Adopted Levels, Gammas (continued)

γ(^{192}Hg) (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ[‡]	E_f	J_f^π	Mult.[†]	α[i]	Comments
4010.5	(15$^-$)	560.9[b] 2	100[&]	3449.6	(13$^-$)	(E2)[a]	0.0205	
		1058.7[&] 3	24[&]	2951.7	(14$^+$)	D		Mult.: from γ(θ) in (HI,xnγ).
4089.9	(16$^-$)	105[h]		3984.9	(14$^-$)			
		195.0[b] 2		3894.9	(14$^-$)	E2[a]	0.427	
4130.6	(16$^+$)	405.0 3	26	3725.6	(14$^+$)	(E2)	0.0459	E_γ,I_γ,Mult.: from ^{170}Er(Mg,xnγ).
		460.9 3	100	3669.8	(14$^+$)	(E2)	0.0329	E_γ,I_γ,Mult.: from ^{170}Er(Mg,xnγ).
		521.9[&] 3	30[&]	3608.6	(16$^+$)			
		1179[h]		2951.7	(14$^+$)	Q[@]		
4216.9	(17$^-$)	126.9[&] 3	33[&]	4089.9	(16$^-$)	D		Mult.: from γ(θ) in (HI,xnγ).
		206.5[b] 2	100[&]	4010.5	(15$^-$)	(E2)[a]	0.350	
4387.7	(18$^-$)	297.7[b] 2	100	4089.9	(16$^-$)	(E2)[a]	0.1089	
4389.4	(18$^+$)	780.8[b] 2	100	3608.6	(16$^+$)	(E2)[&]		
4519.8	(17$^-$)	303[h]		4216.9	(17$^-$)			
4588.4	(19$^-$)	200.7[&] 3	8.2[&]	4387.7	(18$^-$)	(M1)	1.095	Mult.: D from γ(θ) in ^{170}Er(Mg,xnγ).
		371.5[&] 2	100[&]	4216.9	(17$^-$)	(E2)	0.0579	Mult.: Q from γ(θ) in ^{170}Er(Mg,xnγ) for cascade γ.
4741.6	(18$^+$)	611.0[&] 2	100	4130.6	(16$^+$)			
4950.5	(20$^-$)	562.8[&] 3	100	4387.7	(18$^-$)	(E2)	0.0204	Mult.: Q from γ(θ) in ^{170}Er(Mg,xnγ) for cascade γ.
5021.6	(19$^-$)	502[g]	100[g]	4519.8	(17$^-$)	(E2)[g]	0.0267	
5130.7	(20$^+$)	741.3[b] 2	100	4389.4	(18$^+$)	(E2)[a]	0.01108	
5216.0	(21$^-$)	627.6[&] 2	100	4588.4	(19$^-$)			
5271.6	(20$^+$)	882.2[&] 3	100	4389.4	(18$^+$)	(E2)[@]		
5316.5	(20$^+$)	574.8[&] 3	100	4741.6	(18$^+$)	(E2)[&]	0.0194	
5543.5	(21$^-$)	522[h]		5021.6	(19$^-$)	[E2]	0.0243	
		593[h]		4950.5	(20$^-$)			
		955[h]		4588.4	(19$^-$)			
5587.1	(20$^+$)	270[h]		5316.5	(20$^+$)			
		846[h]		4741.6	(18$^+$)	Q[@]		
5655.2	(22)$^-$	704.7[&] 3	100	4950.5	(20$^-$)	(E2)[&]	0.01234	
5700.6	(22)$^+$	569.9[&] 2	100	5130.7	(20$^+$)	(E2)[&]	0.0198	
5787.9	(22$^+$)	471.4[&] 3	100	5316.5	(20$^+$)	(E2)[@]	0.0311	
6012.2	(23$^-$)	796.2[&] 3	100	5216.0	(21$^-$)	(E2)[&]		
6112.6	(22$^+$)	841[h]		5271.6	(20$^+$)	(E2)[@]		
		982[h]		5130.7	(20$^+$)	Q[@]		

$^{192}_{80}Hg_{112}$-9

Adopted Levels, Gammas (continued)

γ(^{192}Hg) (continued)

E_i(level)	J_i^π	E_γ †	I_γ ‡	E_f	J_f^π	Mult.†	α^i	Comments
6125.5	(23$^-$)	582[h]		5543.5	(21$^-$)	(E2)[@]	0.0188	
		910[h]		5216.0	(21$^-$)	(E2)[@]		
6233.6	(22$^+$)	962[g]	100[g]	5271.6	(20$^+$)	(Q)[g]		
6294.6	(22$^+$)	978[g]	100[g]	5316.5	(20$^+$)	(E2)[g]		
6303.3	(22$^+$)	716[h]		5587.1	(20$^+$)			
		987[h]		5316.5	(20$^+$)	Q[@]		
6428.1	(24)$^+$	640[h]		5787.9	(22$^+$)			
		727.5[&] *3*	100	5700.6	(22)$^+$	(E2)[&]	0.01153	
6432.8	(23$^+$)	129.8[h]		6303.3	(22$^+$)	(M1)[@]	3.75	
		138[h]		6294.6	(22$^+$)			
6437.6	(24$^-$)	782.3[&] *3*	100	5655.2	(22)$^-$			
6709.4	(24$^+$)	276.3[g]	100[g]	6432.8	(23$^+$)	(M1)[g]	0.452	B(M1)(W.u.)=0.042 *+13−10*
		405.9[g]	29[g]	6303.3	(22$^+$)	E2[g]	0.0456	B(E2)(W.u.)=9.2 *+27−20*
6855.0	(25$^-$)	842.8[&] *3*	100	6012.2	(23$^-$)	(E2)[@]		E_γ: complex peak (wider than normal) in ^{170}Er(Mg,xnγ).
6949.2	(25$^-$)	823[g]	100[g]	6125.5	(23$^-$)	(E2)[g]		
7035.3	(24$^-$)	157[h]	100	6878.4	(23$^-$)	(M1)	2.18	
7043.3	(25$^+$)	333.6[g]	35[g]	6709.4	(24$^+$)	(M1)[g]	0.270	B(M1)(W.u.)=0.20 *+32−20*
		611.0[g]	100[g]	6432.8	(23$^+$)	(E2)[g]	0.01688	B(E2)(W.u.)=1.0×10^2 *+16−10*
7267.6	(26$^-$)	830[g]	100[g]	6437.6	(24$^-$)	(E2)[g]		
7272.5	(25$^-$)	237[h]		7035.3	(24$^-$)			
		394[h]		6878.4	(23$^-$)			
		1148[h]		6125.5	(23$^-$)			
		1260[h]		6012.2	(23$^-$)	(E2)[@]		
7320.1	(26$^+$)	892[h]	100	6428.1	(24)$^+$	(E2)		
7434.9	(26$^+$)	391.9[g]	89[g]	7043.3	(25$^+$)	(M1)[g]	0.1752	B(M1)(W.u.)=0.063 *+18−33*
		725.3[g]	100[g]	6709.4	(24$^+$)	[E2][g]	0.01161	B(E2)(W.u.)=8.3 *+24−44*
7516.1	(26$^-$)	244[h]		7272.5	(25$^-$)	(M1)[@]	0.636	
		481[h]		7035.3	(24$^-$)	(E2)[@]	0.0296	
7684.9	(25$^-$,26$^-$)	413[h]		7272.5	(25$^-$)			
		1247[h]		6437.6	(24$^-$)	Q[@]		
7722.0	(27$^-$)	867[h]		6855.0	(25$^-$)			
7787.8	(27$^-$)	103[h]		7684.9	(25$^-$,26$^-$)			
		272[h]		7516.1	(26$^-$)	(M1)[@]	0.472	
		515[h]		7272.5	(25$^-$)			

$^{192}_{80}Hg_{112}$-10

Adopted Levels, Gammas (continued)

$\gamma(^{192}Hg)$ (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ[‡]	E_f	J_f^π	Mult.[†]	α[i]	Comments
7787.8	(27$^-$)	933[h]		6855.0	(25$^-$)	Q[@]		
7819.6	(27$^-$)	304[h]		7516.1	(26$^-$)			
		870[h]		6949.2	(25$^-$)	(E2)[@]		
7838.4	(27$^-$)	889[g]	100[g]	6949.2	(25$^-$)	Q[g]		
7926.7	(28$^-$)	88[h]		7838.4	(27$^-$)			
		107[h]		7819.6	(27$^-$)	D[@]		
		139[h]		7787.8	(27$^-$)			
		410[hk]		7516.1	(26$^-$)			
7959.0	(27$^+$)	524.4[g]	100[g]	7434.9	(26$^+$)	(M1)[g]	0.0809	B(M1)(W.u.)=0.08 *7*
		915.6[g]	60[g]	7043.3	(25$^+$)	(E2)[g]		B(E2)(W.u.)=4 *4*
8180.7	(28$^+$)	222[h]		7959.0	(27$^+$)			
8194.6	(28$^-$)	927[g]	100[g]	7267.6	(26$^-$)	(E2)[g]		
8207.6	(28$^-$)	940[g]	100[g]	7267.6	(26$^-$)	Q[g]		
8224.3	(28$^-$)	386[h]		7838.4	(27$^-$)			
		405[h]		7819.6	(27$^-$)	D[@]		
		708[h]		7516.1	(26$^-$)			
8263.5	(29$^-$)	337[h]		7926.7	(28$^-$)			
		476[h]		7787.8	(27$^-$)	(E2)[@]	0.0304	
8302.6	(28$^+$)	343.4[g]	59[g]	7959.0	(27$^+$)	(M1)[g]	0.250	B(M1)(W.u.)=0.4 *4*
		867.6[g]	100[g]	7434.9	(26$^+$)	[E2][g]		B(E2)(W.u.)=20 *+21−20*
8331.1	(28$^+$)	1011[g]	100[g]	7320.1	(26$^+$)	(E2)[g]		
8543.2	(30$^-$)	280[h]		8263.5	(29$^-$)	(M1)[@]	0.436	
		616[h]		7926.7	(28$^-$)	(E2)[@]	0.01657	
8631.0	(29$^-$)	909[h]		7722.0	(27$^-$)			
8693.0	(29$^-$)	971[g]	100[g]	7722.0	(27$^-$)	(Q)[g]		
8712.6	(29$^+$)	409.1[g]	100[g]	8302.6	(28$^+$)	(M1)[g]	0.1562	B(M1)(W.u.)=1.3 *13*
		753.7[g]	66[g]	7959.0	(27$^+$)	(E2)[g]	0.01070	B(E2)(W.u.)=9.E+1 *+10−9*
8961.3	(30$^+$)	248.1[g]	100[g]	8712.6	(29$^+$)	[M1][g]	0.607	B(M1)(W.u.)=0.6 *3* if 781 branch negligible.
		659.2[g]	90[g]	8302.6	(28$^+$)	[E2][g]	0.01426	B(E2)(W.u.)=27 *13* if 781 branch negligible.
		781[h]		8180.7	(28$^+$)			
8990.2	(31$^-$)	447[h]		8543.2	(30$^-$)	(M1)[@]	0.1234	
		727[h]		8263.5	(29$^-$)			
9196.0	(31$^+$)	234.8[g]	100[g]	8961.3	(30$^+$)	(M1)[g]	0.707	B(M1)(W.u.)=0.38 *+5−7*
		483.2[g]	16[g]	8712.6	(29$^+$)	(E2)[g]	0.0293	B(E2)(W.u.)=11.6 *+15−20*
9375.9	(32$^+$)	179.8[g]	100[g]	9196.0	(31$^+$)	(M1)[g]	1.489	B(M1)(W.u.)=0.94 *19*

$^{192}_{80}Hg_{112}$-11

Adopted Levels, Gammas (continued)

γ(^{192}Hg) (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ[‡]	E_f	J_f^π	Mult.[†]	α[i]	$I_{(\gamma+ce)}$[#]	Comments
9375.9	(32$^+$)	414.6[g]	18[g]	8961.3	(30$^+$)	[E2][g]	0.0431		B(E2)(W.u.)=31 *7*
9443.4	(32$^-$)	454[h]				(M1)[@]	0.1184		
		900[h]		8543.2	(30$^-$)	(E2)[@]			
9666.0	(33$^+$)	290[h]		9375.9	(32$^+$)	(M1)[@]	0.396		
		470[h]		9196.0	(31$^+$)				
9932.8	(33$^-$)	490[h]		9443.4	(32$^-$)	(M1)[@]	0.0967		
		942[h]		8990.2	(31$^-$)	(E2)[@]			
10038.0	(34$^+$)	372[h]		9666.0	(33$^+$)				
10464.4	(34$^-$)	532[hk]		9932.8	(33$^-$)				
		1021[h]		9443.4	(32$^-$)	(E2)[@]			
214.4+x	J+2	214.4[f] *3*		x	J≈(8)	(E2)[f]	0.309	0.08 *2*	B(E2)(W.u.)>190 E_γ: 214.9 *2* (1994Ga07) in (HI,xnγ):SD.
472.2+x	J+4	257.8[f] *1*		214.4+x	J+2	(E2)[f]	0.1693	0.88 *5*	B(E2)(W.u.)=1.7×10^3 *+3−4* E_γ: 258.2 *1* (1994Ga07) in (HI,xnγ):SD.
772.3+x	J+6	300.1[f] *1*		472.2+x	J+4	(E2)[f]	0.1063	1.01 *5*	B(E2)(W.u.)=1.84×10^3 *+18−24* Other Eγ: 300.4 *1* (1994Ga07) in (HI,xnγ):SD.
1113.7+x	J+8	341.4[f] *1*		772.3+x	J+6	(E2)[f]	0.0732	1.07 *6*	B(E2)(W.u.)=2.1×10^3 *+5−6* Other Eγ: 341.7 *1* (1994Ga07) in (HI,xnγ):SD.
1495.3+x	J+10	381.6[f] *1*		1113.7+x	J+8	(E2)[f]	0.0538	1.04 *5*	B(E2)(W.u.)=2.1×10^3 *+6−21* Other Eγ: 382.0 *1* (1994Ga07) in (HI,xnγ):SD.
1916.4+x	J+12	421.1[f] *2*		1495.3+x	J+10	(E2)[f]	0.0414		Other Eγ: 421.2 *1* (1994Ga07) in (HI,xnγ):SD.
2375.2+x	J+14	458.8[f] *2*		1916.4+x	J+12	(E2)[f]	0.0333	1.08 *6*	B(E2)(W.u.)=2.3×10^3 *+5−7* Other Eγ: 459.5 *1* (1994Ga07) in (HI,xnγ):SD.
2871.2+x	J+16	496.0[f] *2*		2375.2+x	J+14	(E2)[f]	0.0275	0.94 *6*	B(E2)(W.u.)=2.0×10^3 *+4−3* Other Eγ: 496.8 *1* (1994Ga07) in (HI,xnγ):SD.
3403.3+x	J+18	532.1[f] *2*		2871.2+x	J+16	(E2)[f]	0.0232	0.88 *5*	B(E2)(W.u.)=2.12×10^3 *+32−23* Other Eγ: 532.8 *1* (1994Ga07) in (HI,xnγ):SD.
3970.7+x	J+20	567.4[f] *2*		3403.3+x	J+18	(E2)[f]	0.0200	0.69 *4*	B(E2)(W.u.)=2.1×10^3 *4* Other Eγ: 568.0 *1* (1994Ga07) in (HI,xnγ):SD.
4572.4+x	J+22	601.7[f] *2*		3970.7+x	J+20	(E2)[f]	0.01747	0.71 *4*	B(E2)(W.u.)=1.73×10^3 *+20−28* Other Eγ: 602.5 *1* (1994Ga07) in (HI,xnγ):SD.
5207.3+x	J+24	634.9[f] *2*		4572.4+x	J+22	(E2)[f]	0.01549		B(E2)(W.u.)=1.6×10^3 *4* Other Eγ: 636.1 *1* (1994Ga07) in (HI,xnγ):SD.
5875.4+x	J+26	668.1[f] *2*		5207.3+x	J+24	(E2)[f]	0.01385	0.55 *5*	B(E2)(W.u.)=2.1×10^3 *6* Other Eγ: 669.0 *2* (1994Ga07) in (HI,xnγ):SD.
6575.5+x	J+28	700.1[f] *2*		5875.4+x	J+26	(E2)[f]	0.01252	0.49 *6*	B(E2)(W.u.)=1.6×10^3 *+4−5* Other Eγ: 700.9 *2* (1994Ga07) in (HI,xnγ):SD.

$^{192}_{80}Hg_{112}$-12

Adopted Levels, Gammas (continued)

γ(^{192}Hg) (continued)

E_i(level)	J_i^π	E_γ[†]	E_f	J_f^π	Mult.[†]	α[i]	$I_{(\gamma+ce)}$[#]	Comments
7307.0+x	J+30	731.5[f] *2*	6575.5+x	J+28	(E2)[f]	0.01140	0.42 *6*	B(E2)(W.u.)=1.9×10^3 *+20−11* Other Eγ: 732.2 *1* (1994Ga07) in (HI,xnγ):SD.
8069.3+x	J+32	762.3[f] *3*	7307.0+x	J+30	(E2)[f]	0.01045	0.31 *5*	B(E2)(W.u.)=1.7×10^3 *+18−17* Other Eγ: 762.8 *4* (1994Ga07) in (HI,xnγ):SD.
8862.0+x	J+34	792.7[f] *4*	8069.3+x	J+32	(E2)[f]		0.29 *4*	Other Eγ: 793.0 *3* (1994Ga07) in (HI,xnγ):SD.
9684.9+x	J+36	822.9[f] *4*	8862.0+x	J+34	(E2)[f]		0.06 *2*	Other Eγ: 822.5 *4* (1994Ga07) in (HI,xnγ):SD.
10538.0+x	J+38	853.1[f] *5*	9684.9+x	J+36			0.03 *1*	Other Eγ: 852.1 *6* (1994Ga07) in (HI,xnγ):SD.
11426.7+x?	J+40	888.7[fk] *7*	10538.0+x	J+38			≤0.05	Other Eγ: 882 (1994Ga07) in (HI,xnγ):SD.
241.2+y	J1+2	241.2[f]	y	J1≈(10)				Eγ: from 1995Ko17 only in (HI,xnγ):SD.
523.6+y	J1+4	282.4[f] *2*	241.2+y	J1+2	[E2]	0.1277	0.71 *8*	
845.7+y	J1+6	322.1[f] *2*	523.6+y	J1+4			1.03 *8*	
1207.0+y	J1+8	361.3[f] *2*	845.7+y	J1+6			1.00 *7*	
1607.2+y	J1+10	400.2[f] *2*	1207.0+y	J1+8			0.99 *6*	
2045.2+y	J1+12	438.0[f] *2*	1607.2+y	J1+10			0.96 *6*	
2520.4+y	J1+14	475.2[f] *2*	2045.2+y	J1+12	[E2]	0.0305	0.97 *7*	B(E2)(W.u.)=2500 *700*
3031.4+y	J1+16	511.0[f] *2*	2520.4+y	J1+14	[E2]	0.0256	1.08 *7*	B(E2)(W.u.)=1.6×10^3 *+4−6*
3578.1+y	J1+18	546.7[f] *2*	3031.4+y	J1+16	[E2]	0.0218	1.03 *6*	B(E2)(W.u.)=1720 *250* Other Eγ: 547.5 (1995Ko17) in (HI,xnγ):SD.
4156.9+y	J1+20	578.8[f] *2*	3578.1+y	J1+18	[E2]	0.0191	0.91 *7*	B(E2)(W.u.)=2000 *300* Other Eγ: 579.9 (1995Ko17) in (HI,xnγ):SD.
4761.3+y	J1+22	604.4[f] *2*	4156.9+y	J1+20	[E2]	0.01730	0.82 *7*	B(E2)(W.u.)=2.02×10^3 *+28−24*
5385.5+y	J1+24	624.2[f] *3*	4761.3+y	J1+22	[E2]	0.01609	0.55 *8*	B(E2)(W.u.)=2000 *300*
6037.7+y	J1+26	652.2[f] *3*	5385.5+y	J1+24			0.65 *8*	
6722.0+y	J1+28	684.3[f] *3*	6037.7+y	J1+26			0.50 *8*	Other Eγ: 685.5 (1995Ko17) in (HI,xnγ):SD.
7439.7+y	J1+30	717.7[f] *3*	6722.0+y	J1+28			0.30 *7*	
8189.5+y	J1+32	749.8[f] *4*	7439.7+y	J1+30			0.19 *4*	Other Eγ: 750.7 (1995Ko17) in (HI,xnγ):SD.
8972.6+y	J1+34	783.1[f] *5*	8189.5+y	J1+32			0.12 *3*	Other Eγ: 782 (1995Ko17) in (HI,xnγ):SD.
9791.6+y?	J1+36	819[fk] *1*	8972.6+y	J1+34				Eγ: not reported by 1995Ko17 in (HI,xnγ):SD.
333.1+z	J2+2	333.1[f] *3*	z	J2			0.66 *7*	
705.9+z	J2+4	372.8[f] *2*	333.1+z	J2+2			1.13 *8*	
1118.0+z	J2+6	412.1[f] *2*	705.9+z	J2+4			0.90 *9*	
1568.6+z	J2+8	450.6[f] *3*	1118.0+z	J2+6			0.95 *8*	
2056.9+z	J2+10	488.3[f] *3*	1568.6+z	J2+8			0.97 *8*	
2582.4+z	J2+12	525.5[f] *4*	2056.9+z	J2+10			0.80 *8*	

$^{192}_{80}Hg_{112}$-13

Adopted Levels, Gammas (continued)

γ(^{192}Hg) (continued)

E_i(level)	J_i^π	E_γ[†]	E_f	J_f^π	$I_{(\gamma+ce)}$[#]
3144.1+z	J2+14	561.7[f] *4*	2582.4+z	J2+12	0.44 *7*
3741.4+z	J2+16	597.3[f] *4*	3144.1+z	J2+14	0.50 *7*
4371.5+z	J2+18	630.1[f] *5*	3741.4+z	J2+16	
5030.5+z	J2+20	659.0[f] *8*	4371.5+z	J2+18	0.20 *4*
5711.5+z	J2+22	681.0[f] *15*	5030.5+z	J2+20	0.15 *8*

† From ^{192}Tl ε decay (9.6 min+10.8 min), except where noted.
‡ Relative photon branching from each level; values are weighted averages from the two mixtures of ^{192}Tl isomers in ^{192}Tl ε decay (9.6 min+10.8 min), except as noted.
# Relative intensities within a given SD band are given; data are from (HI,xnγ):SD and are for the ^{160}Gd(^{36}S,4nγ) reaction at E(^{36}S)=159 MeV.
@ From γ asymmetry in (^{36}S,4nγ), assigning Δπ=(no) for intraband transitions.
& From ^{170}Er(Mg,xnγ).
a From ^{192}Pt(α,4nγ), ^{194}Pt(α,6nγ) and ^{170}Er(Mg,xnγ).
b Weighted average from ^{192}Pt(α,4nγ), ^{194}Pt(α,6nγ) and ^{170}Er(Mg,xnγ), rounded to the nearest tenth of a keV.
c Deduced from I(γ+ce) in ^{192}Pt(α,4nγ), ^{194}Pt(α,6nγ) and α.
d From ce data in ^{192}Pt(α,4nγ), ^{194}Pt(α,6nγ).
e From ^{192}Tl ε decay using source enhanced in (2^-) ^{192}Tl.
f From (HI,xnγ):SD.
g From ^{160}Gd(^{36}S,4nγ). Authors do not state uncertainties in Eγ or Iγ. Multipolarity is based on γ anisotropy assigning Δπ=(no) for intraband transitions.
h From ^{160}Gd(^{36}S,4nγ); ΔE_γ unstated by authors.
i Total theoretical internal conversion coefficients, calculated using the BrIcc code (2008Ki07) with Frozen orbital approximation based on γ-ray energies, assigned multipolarities, and mixing ratios, unless otherwise specified.
j Multiply placed with intensity suitably divided.
k Placement of transition in the level scheme is uncertain.

$^{192}_{80}Hg_{112}$-14

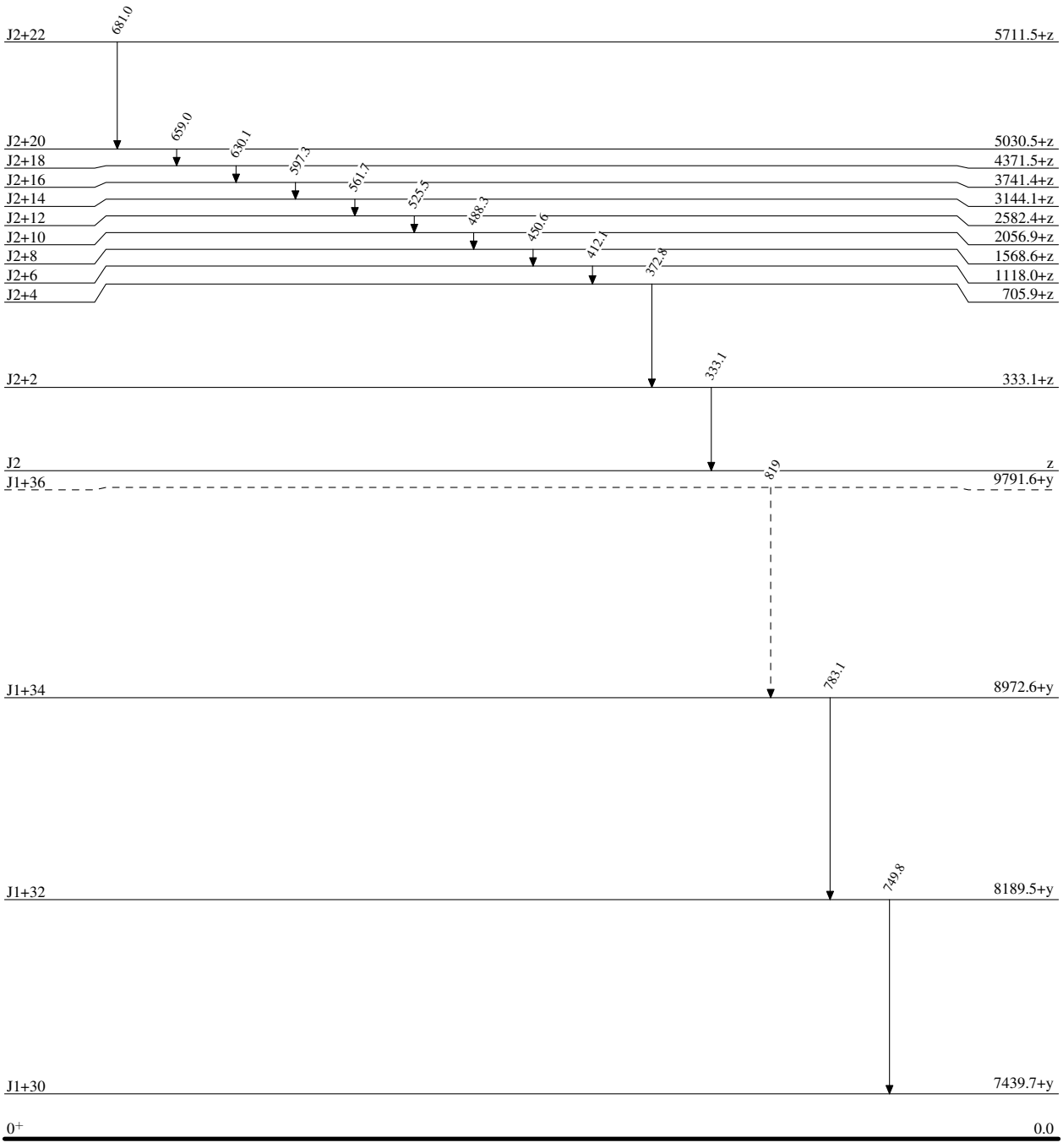
Adopted Levels, Gammas

Legend

Level Scheme

Intensities: Relative photon branching from each level

γ Decay (Uncertain)



$^{192}_{80}Hg_{112}$

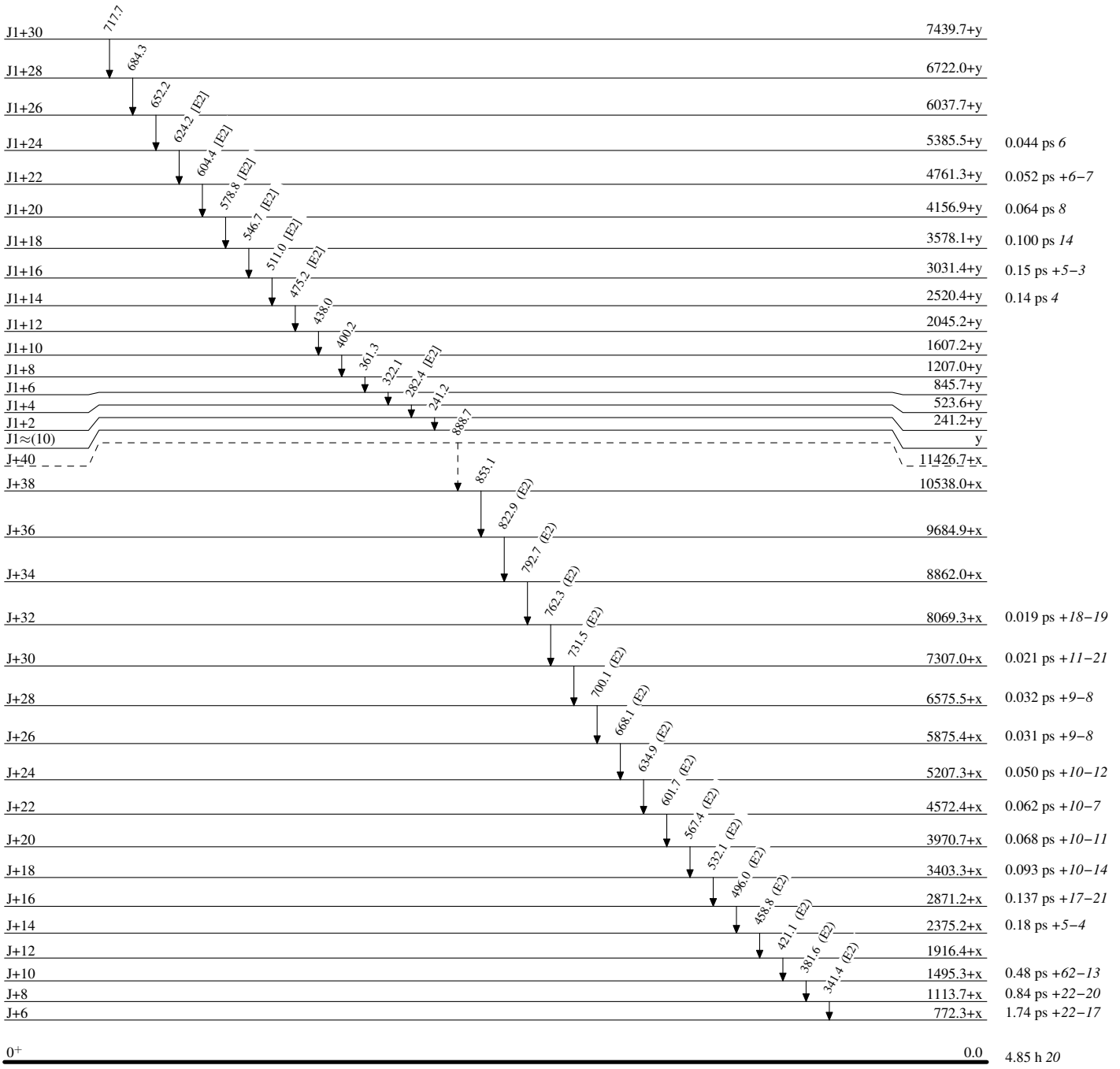
Adopted Levels, Gammas

Legend

Level Scheme (continued)

Intensities: Relative photon branching from each level

– – – – – – ► γ Decay (Uncertain)



$^{192}_{80}Hg_{112}$

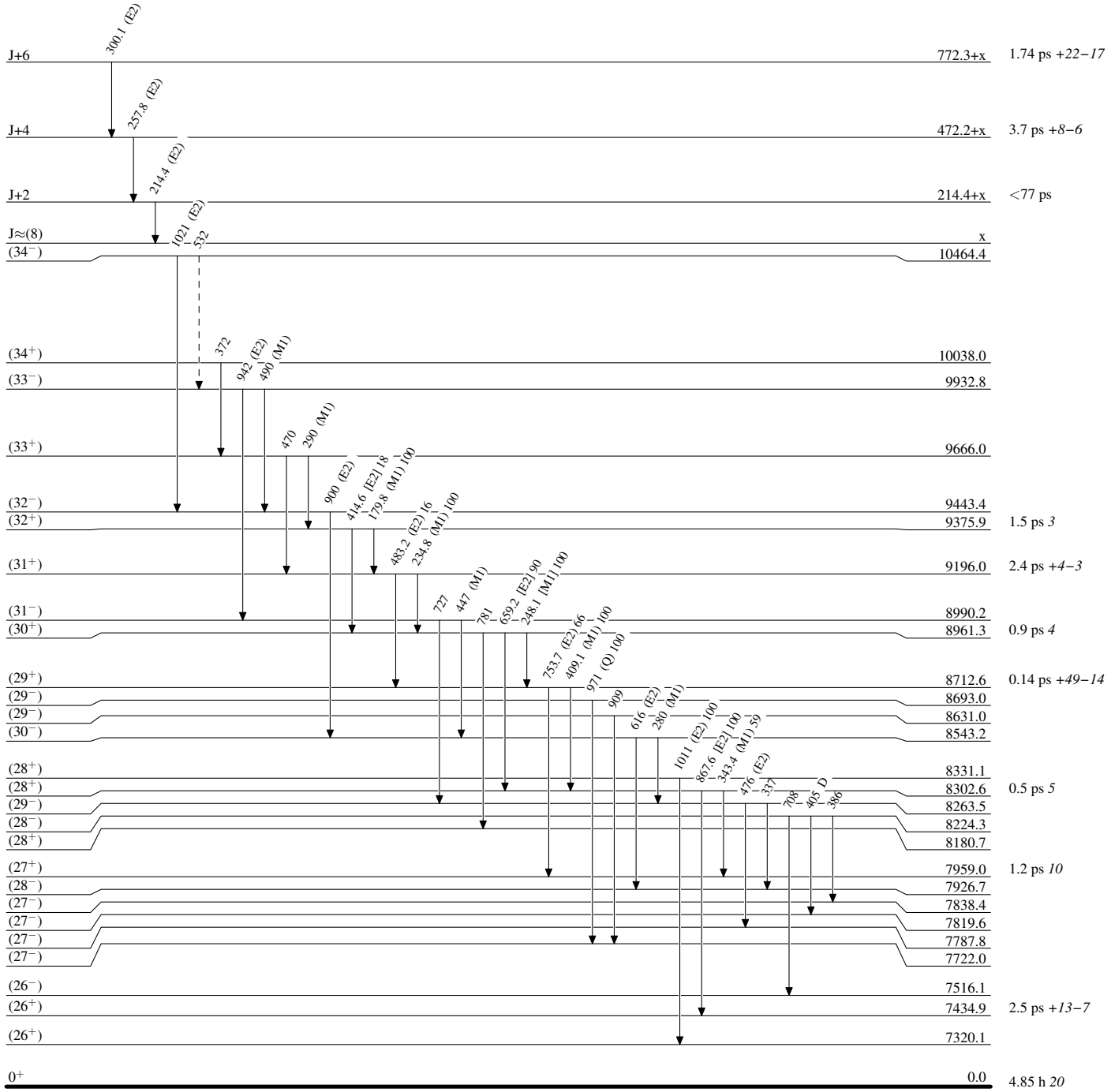
Adopted Levels, Gammas

Legend

Level Scheme (continued)

Intensities: Relative photon branching from each level

γ Decay (Uncertain)



$^{192}_{80}Hg_{112}$

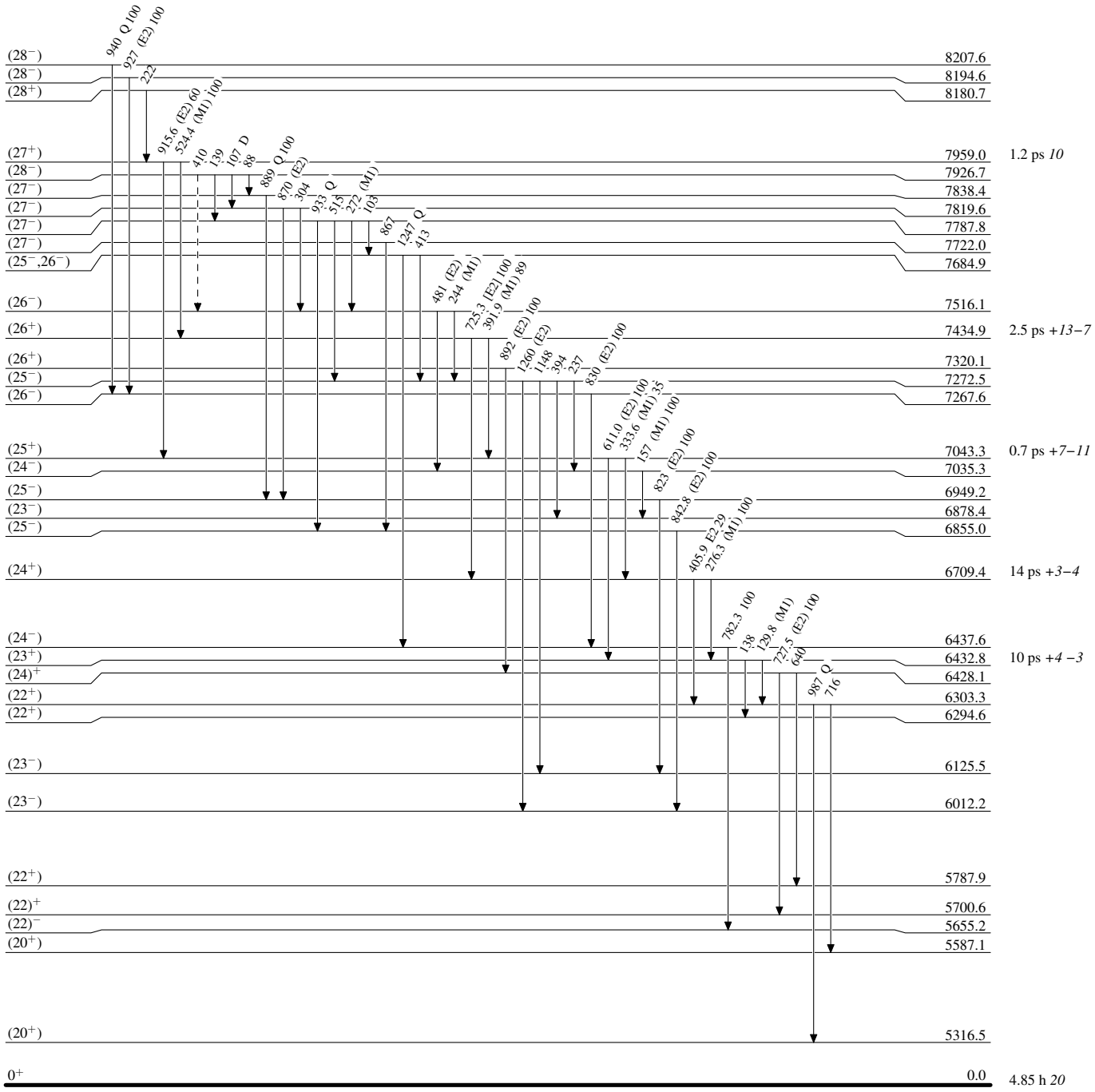
Adopted Levels, Gammas

Legend

Level Scheme (continued)

Intensities: Relative photon branching from each level

γ Decay (Uncertain)

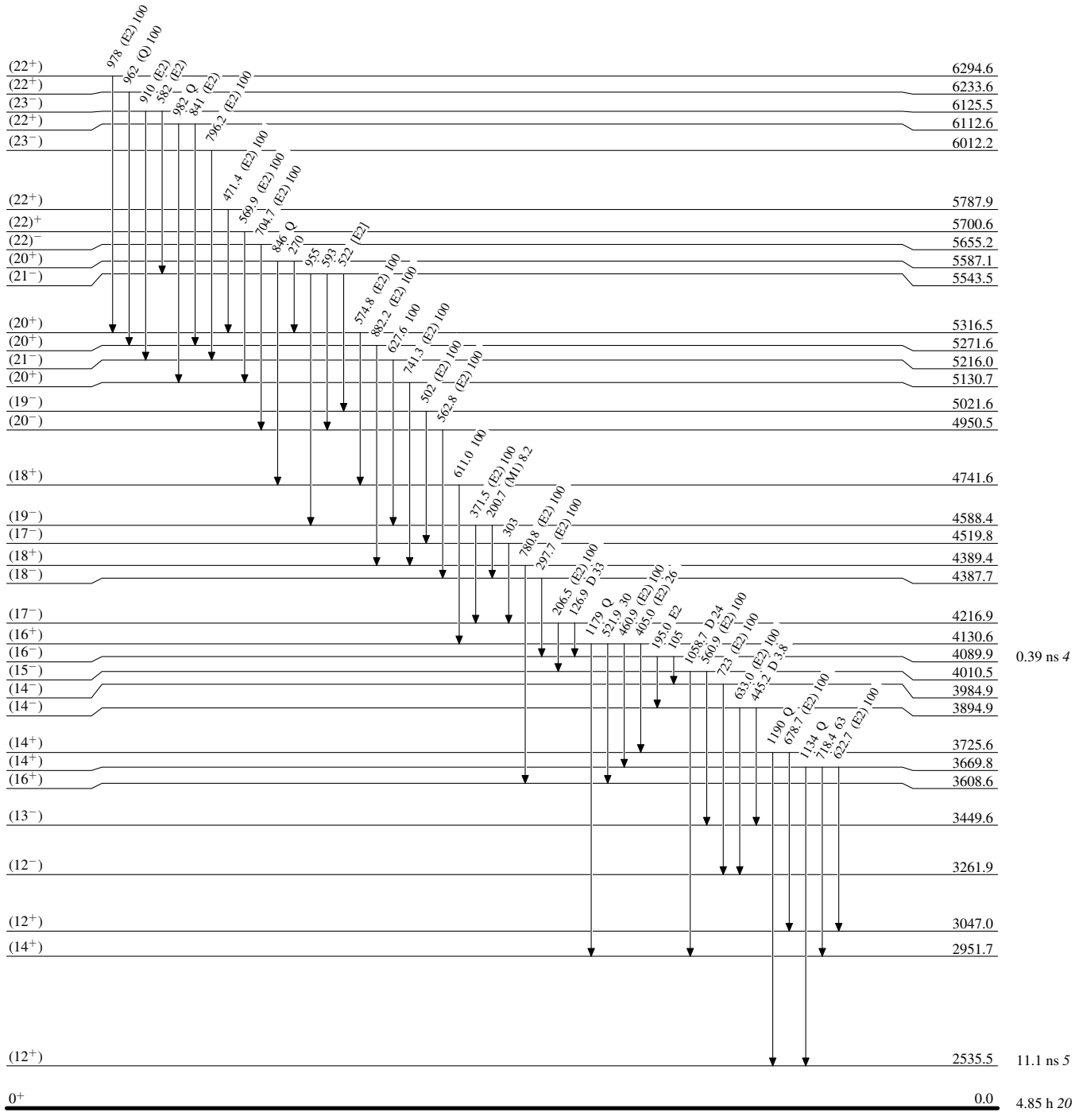


$^{192}_{80}Hg_{112}$

Adopted Levels, Gammas

Level Scheme (continued)

Intensities: Relative photon branching from each level



$^{192}_{80}Hg_{112}$

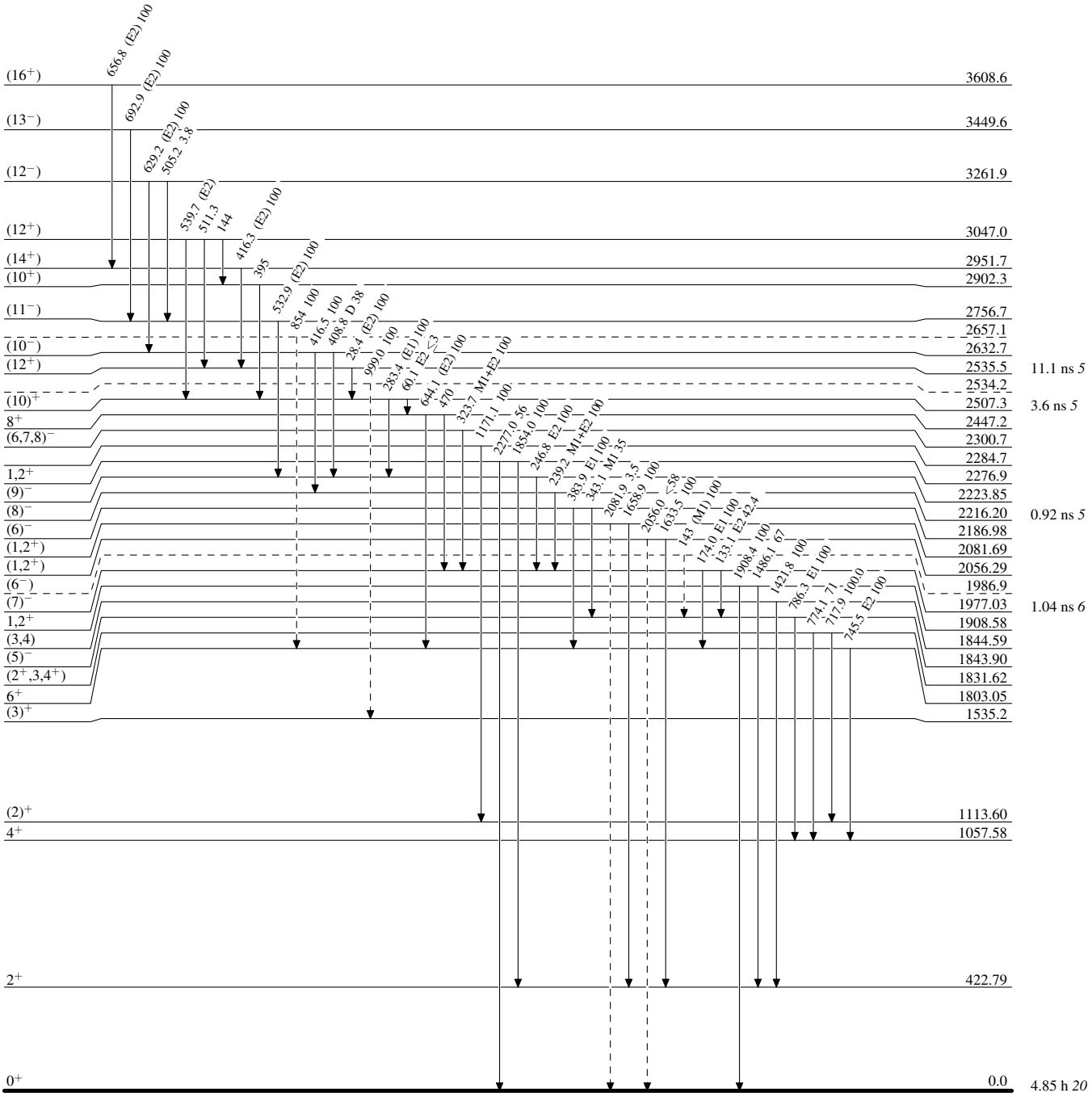
Adopted Levels, Gammas

Legend

Level Scheme (continued)

Intensities: Relative photon branching from each level

γ Decay (Uncertain)

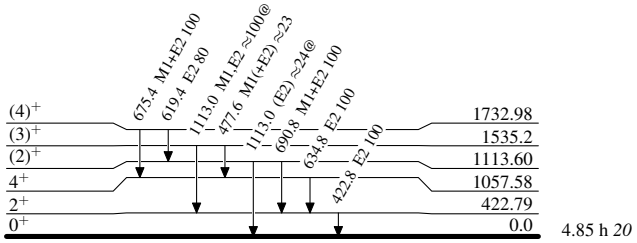


$^{192}_{80}Hg_{112}$

Adopted Levels, Gammas

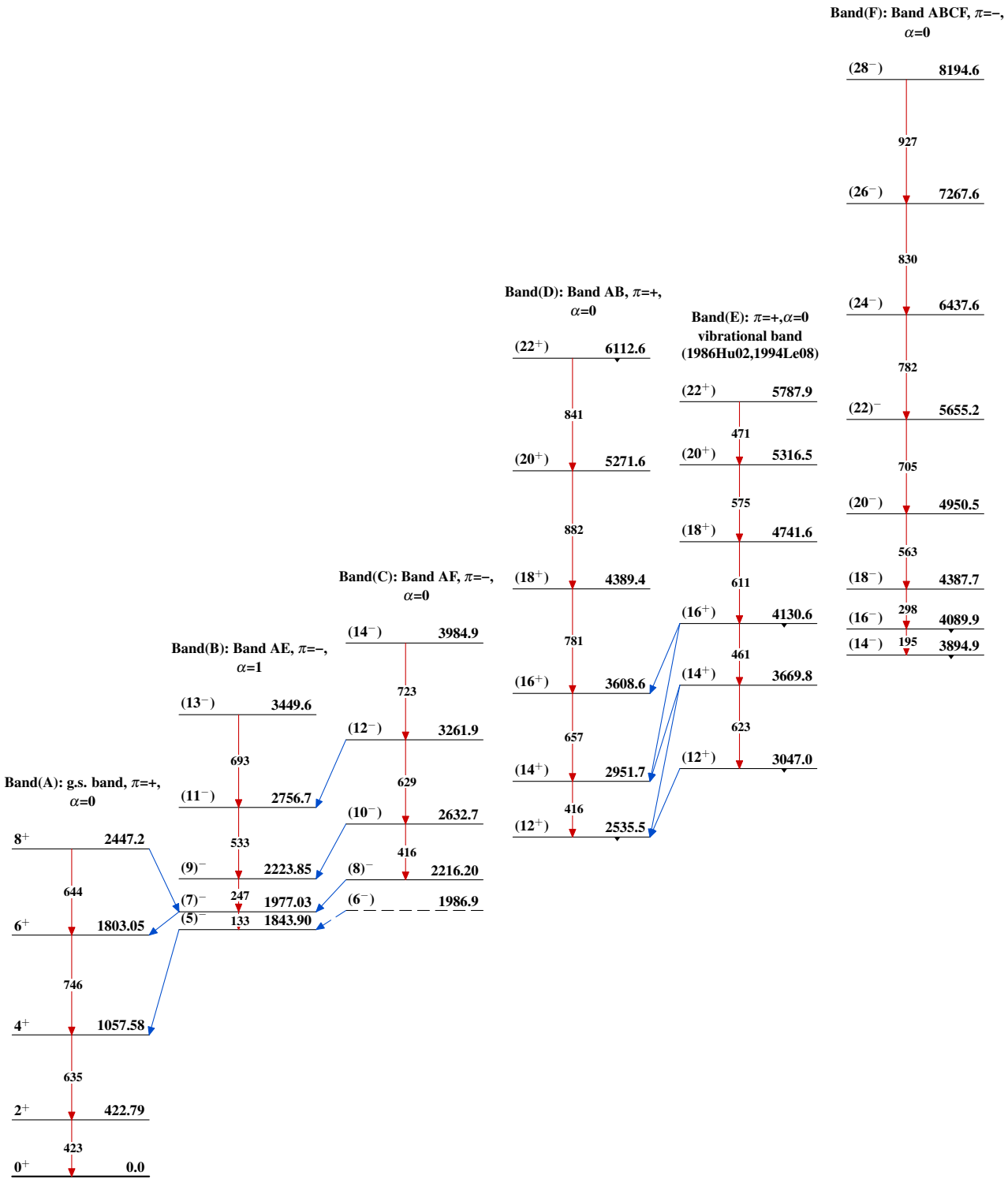
Level Scheme (continued)

Intensities: Relative photon branching from each level
@ Multiply placed: intensity suitably divided



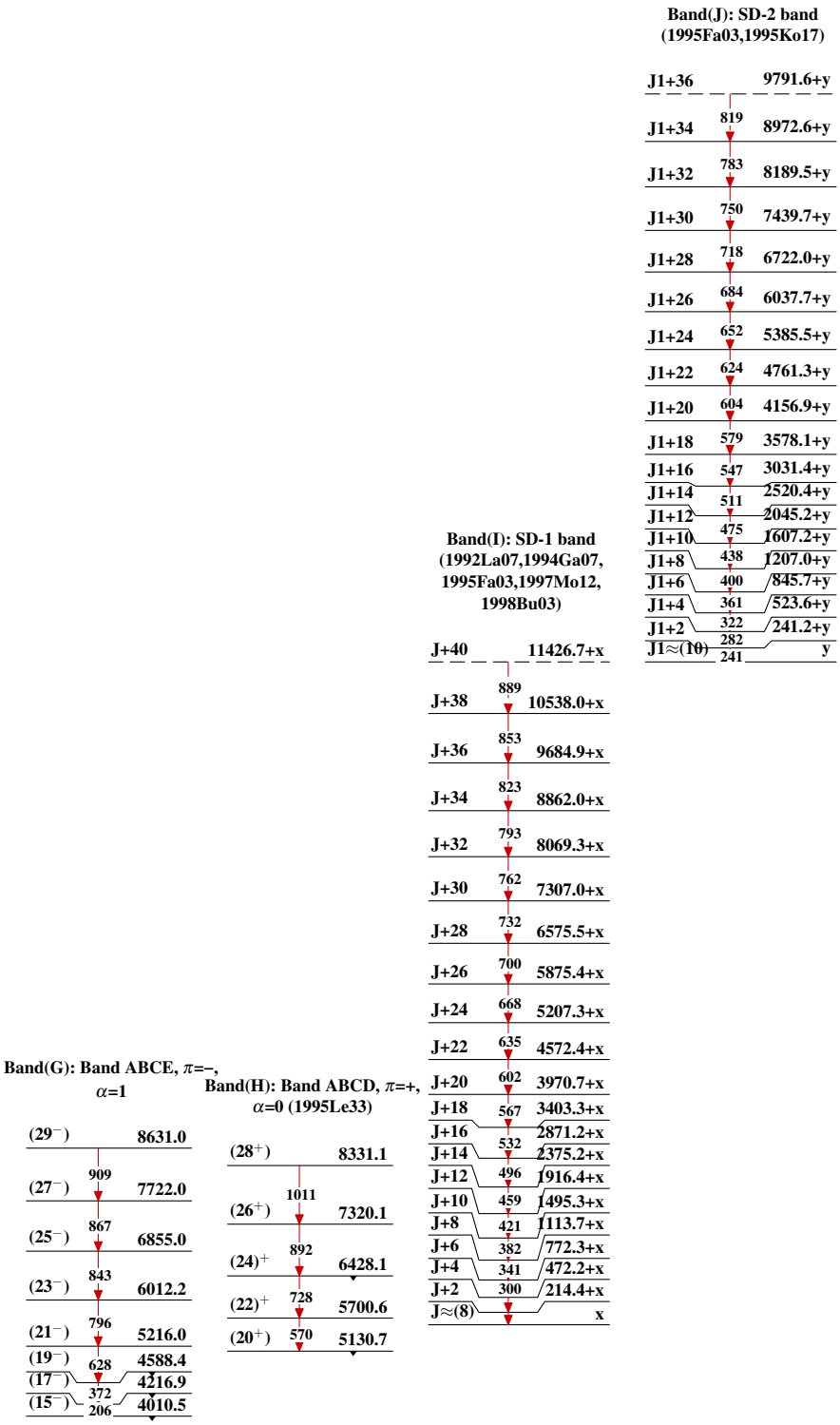
$^{192}_{80}Hg_{112}$

Adopted Levels, Gammas



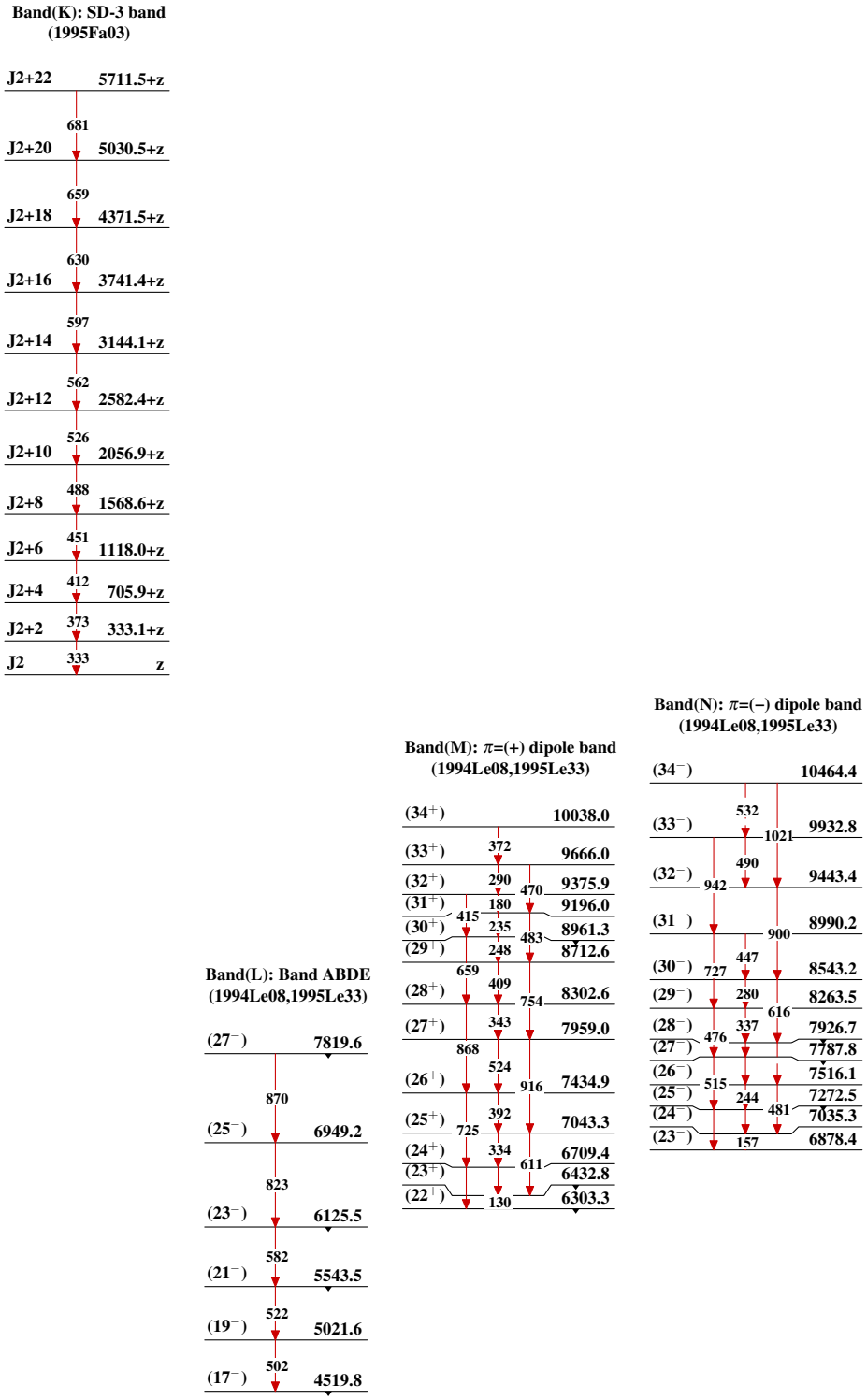
$^{192}_{80}Hg_{112}$

Adopted Levels, Gammas (continued)



$^{192}_{80}Hg_{112}$

Adopted Levels, Gammas (continued)



$^{192}_{80}Hg_{112}$