(HI,xnγ):SD 1993Jo09,1994Jo10,1998Bu03

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	M. Shamsuzzoha Basunia	NDS 143, 1 (2017)	31-Mar-2017

1998Bu03: ^{176}Yb(^{22}Ne,5nγ) E=118 MeV. Measured γ, γγ, lifetimes. Deduced SD bands and intrinsic quadrupole moments.
1994Jo10, 1993Jo09, 1992ShZR, 1990Cu05, 1990Cu06: ^{150}Nd(^{48}Ca,5nγ) E=205, 213 MeV. Measured γ, γγ. Deduced SD bands and transitions.
1993Fa07: ^{176}Yb(^{22}Ne,5nγ) E=116 MeV. Measured γ, γγ. Deduced SD bands and interband transitions. Intraband transitions from 1993Jo09, 1992ShZR. See also 1997Fa15.
Others: 1990He09 used reactions ^{176}Yb(^{22}Ne,5nγ) E=116 MeV and ^{150}Nd(^{48}Ca,5nγ) E=195-210 MeV to identify SD-2 and SD-3 bands in ^{193}Hg (see 1990He23 for analysis of results); 2000Zw03 attempt to determine whether the relative yields for the population of superdeformed states in HI-induced reactions could be enhanced by selecting the (HI,αxn) channel, rather than the pure neutron evaporation channel. The results show that the yield for those states is actually about 4 times lower in the former case.
Measured Kα x ray yield (1993Cu02).

^{193}Hg Levels

SD-1, SD-2 and SD-3 bands assigned on the basis of γγ evidence with known transitions (in normal bands) in ^{193}Hg. SD-4 band assigned on the basis of excitation functions.

E(level)	Jπ	$T_{1/2}$ †	Comments
x‡	J		Additional information 1. Jπ: J≈(19/2⁻). 1993Fa07 suggested that the lowest transition in this band is 192 keV, but 1993Jo09 do not seem to confirm this.
111.8+x# *4*	J+1		
233.20+x‡ *20*	J+2		
365.8+x# *4*	J+3		
507.4+x‡ *3*	J+4		
660.4+x# *4*	J+5		
821.4+x‡ *4*	J+6		
995.3+x# *4*	J+7		
1174.7+x‡ *4*	J+8		
1369.8+x# *4*	J+9		
1566.6+x‡ *4*	J+10		
1782.9+x# *5*	J+11		
1995.6+x‡ *5*	J+12		
2234.0+x# *5*	J+13		
2460.1+x‡ *5*	J+14		
2722.3+x# *5*	J+15		
2957.5+x‡ *5*	J+16		
3247.2+x# *6*	J+17		
3485.7+x‡ *6*	J+18	0.132 ps *14*	
3807.1+x# *6*	J+19		
4044.2+x‡ *6*	J+20	0.104 ps *7*	
4402.0+x# *6*	J+21		
4634.2+x‡ *6*	J+22	0.083 ps *+7−14*	
5030.8+x# *7*	J+23		
5256.8+x‡ *7*	J+24	0.062 ps *7*	

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(HI,xnγ):SD 1993Jo09,1994Jo10,1998Bu03 (continued)

^{193}Hg Levels (continued)

E(level)	J^π	$T_{1/2}$ †	Comments
5692.5+x# *7*	J+25		
5912.5+x‡ *7*	J+26		
6386.6+x# *7*	J+27		
6601.0+x‡ *7*	J+28		
7112.2+x# *8*	J+29		
7322.3+x‡ *8*	J+30		
7868.8+x# *8*	J+31		
8075.5+x‡ *8*	J+32		
8656.1+x# *8*	J+33		
8860.4+x‡ *8*	J+34		
9473.8+x# *9*	J+35		
9677.0+x‡ *9*	J+36		
10321.3+x# *10*	J+37		
10524.8+x‡ *10*	J+38		
11197.4+x# *11*	J+39		
11405.7+x‡ *11*	J+40		
y@	J1		Additional information 2. J^π: $J_1 \approx (19/2^+)$.
111.9+y& *4*	J1+1		
233.50+y@ *20*	J1+2		
366.1+y& *4*	J1+3		
508.5+y@ *3*	J1+4		
660.9+y& *4*	J1+5		
823.5+y@ *4*	J1+6		
996.0+y& *4*	J1+7		
1178.3+y@ *4*	J1+8		
1370.6+y& *4*	J1+9		
1572.1+y@ *4*	J1+10		
1783.9+y& *4*	J1+11		
2004.2+y@ *5*	J1+12		
2235.0+y& *5*	J1+13		
2474.0+y@ *5*	J1+14		
2723.3+y& *5*	J1+15		
2980.2+y@ *5*	J1+16		
3248.2+y& *6*	J1+17	0.146 ps *+14−21*	
3521.7+y@ *6*	J1+18		
3808.1+y& *6*	J1+19	0.076 ps *+7−14*	
4098.5+y@ *6*	J1+20		
4403.0+y& *6*	J1+21	0.083 ps *7*	
4709.8+y@ *7*	J1+22		
5031.8+y& *7*	J1+23		
5354.1+y@ *7*	J1+24		
5693.5+y& *7*	J1+25		
6031.9+y@ *7*	J1+26		
6387.6+y& *7*	J1+27		

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(HI,xnγ):SD 1993Jo09,1994Jo10,1998Bu03 (continued)

^{193}Hg Levels (continued)

E(level)	J^π	Comments
6741.8+y[@] *7*	J1+28	
7113.2+y[&] *8*	J1+29	
7484.0+y[@] *8*	J1+30	
7869.8+y[&] *8*	J1+31	
8255.2+y[@] *8*	J1+32	
8657.1+y[&] *8*	J1+33	
9057.4+y[@] *9*	J1+34	
9474.8+y[&] *9*	J1+35	
9889.5+y[@] *11*	J1+36	
10322.3+y[&] *10*	J1+37	
10750.0+y[@] *12*	J1+38	
11198.4+y[&] *11*	J1+39	
z[a]	J2	Additional information 3. J^π: $J_2 \approx (27/2^-)$.
291.00+z[a] *20*	J2+2	
619.8+z[a] *3*	J2+4	
986.4+z[a] *4*	J2+6	
1391.4+z[a] *4*	J2+8	
1835.6+z[a] *5*	J2+10	
2319.9+z[a] *5*	J2+12	
2845.8+z[a] *6*	J2+14	
3412.5+z[a] *6*	J2+16	
4017.5+z[a] *6*	J2+18	
4658.0+z[a] *7*	J2+20	
5332.5+z[a] *7*	J2+22	
6040.0+z[a] *7*	J2+24	
6779.3+z[a] *8*	J2+26	
7549.0+z[a] *9*	J2+28	
8350.3+z[a] *10*	J2+30	
9181.6+z[a] *11*	J2+32	
10042.6+z?[a]	J2+34	
u[b]	J3	Additional information 4. J^π: $J_3 \approx (21/2^-)$, from 1994Jo10.
240.51+u[b] *20*	J3+2	
522.4+u[b] *3*	J3+4	
845.9+u[b] *4*	J3+6	
1211.3+u[b] *4*	J3+8	
1617.8+u[b] *5*	J3+10	
2065.3+u[b] *5*	J3+12	
2553.4+u[b] *6*	J3+14	
3081.4+u[b] *6*	J3+16	
3648.6+u[b] *6*	J3+18	
4254.9+u[b] *7*	J3+20	
4899.4+u[b] *7*	J3+22	
5581.3+u[b] *7*	J3+24	
6299.9+u[b] *8*	J3+26	
7054.4+u[b] *8*	J3+28	

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(HI,xnγ):SD 1993Jo09,1994Jo10,1998Bu03 (continued)

^{193}Hg Levels (continued)

E(level)	J^π
7844.2+u[b] *8*	J3+30
8668.5+u[b] *9*	J3+32
9526.4+u[b] *10*	J3+34

† From line-shape analysis (1998Bu03).

‡ Band(A): SD-1 Band (1998Bu03,1994Jo10,1993Jo09,1990Cu05). Q(intrinsic)=18.4 *+8−9* (1998Bu03). Percent population=1.6 *3* (1990Cu05). g factor (intrinsic)=−0.65 *14* (1993Jo09). This is deduced from the ratio of interband (M1) and intraband (E2) transition intensities. Possible configuration: [512]5/2$^-$, α=−1/2 below E$\gamma\approx$400 and $j_{15/2}$ above E$\gamma\approx$600 keV.

Band(B): SD-2 Band (1998Bu03,1994Jo10,1993Jo09,1990Cu05). Q(intrinsic)=17.3 *+11−9* (1998Bu03). Percent population=2.1 *3*(1990Cu05). The relative intensity of this band is anomalously high (≈2 times that of its signature partner SD-3 band) which leads to suggestion that this band may be composed of two SD bands, the other being the signature partner of SD-3 band. Possible configuration: [512]5/2$^-$, α=+1/2. Signature partner of SD-1 band.

@ Band(C): SD-3 Band (1998Bu03,1994Jo10,1993Jo09,1990Cu05). Q(intrinsic)=16.1 *+15−14* (1998Bu03). Percent population=0.9 *3* (1990Cu05) Possible configuration: [624]9/2$^+$, α=−1/2.

& Band(D): SD-4 Band (1998Bu03,1994Jo10,1993Jo09,1990Cu05). Q(intrinsic)=17.3 *+11−9* (1998Bu03). Possible configuration: [624]9/2$^+$, α=+1/2. Signature partner of SD-3 band. SD-2 and SD-4 bands are unresolved but FWHM of lines is consistently greater than that for lines in SD-1 band (from (HI,xnγ):SD).

[a] Band(E): SD-5 Band (1998Bu03,1994Jo10,1993Jo09,1990Cu05). Q(intrinsic)=16.7 *10* (1998Bu03). Percent population=1.1 *3* (1990Cu05). $j_{15/2}$, α=−1/2 intruder band below E$\gamma\approx$400 keV and [512]5/2 α=−1/2 above E$\gamma\approx$600 keV. Configuration: (N=7,α=−1/2)(1994Jo10).

[b] Band(F): SD-6 Band (1998Bu03,1994Jo10). Q(intrinsic)=16.7 *+14−13* (1998Bu03). Percent population ≈0.6 (1994Jo10). Configuration: (N=7,α=+1/2), unfavored signature partner (1994Jo10).

$\gamma(^{193}Hg)$

E_γ†	E_i(level)	J_i^π	E_f	J_f^π	Comments
121.1# *5*	233.20+x	J+2	111.8+x	J+1	
122.6# *5*	233.50+y	J1+2	111.9+y	J1+1	
132.2@# *5*	365.8+x	J+3	233.20+x	J+2	
132.2@# *5*	366.1+y	J1+3	233.50+y	J1+2	
141.6# *5*	507.4+x	J+4	365.8+x	J+3	
142.7# *5*	508.5+y	J1+4	366.1+y	J1+3	
152.9@# *5*	660.4+x	J+5	507.4+x	J+4	
152.9@# *5*	660.9+y	J1+5	508.5+y	J1+4	
160.7# *5*	821.4+x	J+6	660.4+x	J+5	
162.5# *5*	823.5+y	J1+6	660.9+y	J1+5	
173.7@# *5*	995.3+x	J+7	821.4+x	J+6	
173.7@# *5*	996.0+y	J1+7	823.5+y	J1+6	
179.3# *5*	1174.7+x	J+8	995.3+x	J+7	
182.6# *5*	1178.3+y	J1+8	996.0+y	J1+7	
192.3# *5*	1370.6+y	J1+9	1178.3+y	J1+8	1993Fa07 suggested that this transition is also the lowest member of SD-1 band, but results of 1993Jo09 do not seem to confirm this placement.
196.9# *5*	1566.6+x	J+10	1369.8+x	J+9	
201.9# *5*	1572.1+y	J1+10	1370.6+y	J1+9	

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(HI,xnγ):SD 1993Jo09,1994Jo10,1998Bu03 (continued)

γ(^{193}Hg) (continued)

E_γ †	I_γ ‡	E_i(level)	J_i^π	E_f	J_f^π	Comments
212.3# 5		1995.6+x	J+12	1782.9+x	J+11	This γ is a member of an unresolved doublet (the other member is 212.9 keV, from level 1783.9+Y).
212.9# 5		1783.9+y	J1+11	1572.1+y	J1+10	This γ is a member of an unresolved doublet (the other member is 212.3 keV, from level 1995.6+X).
220.5# 5		2004.2+y	J1+12	1783.9+y	J1+11	
226.4# 5		2460.1+x	J+14	2234.0+x	J+13	
233.2 2	0.37 3	233.20+x	J+2	x	J	
233.5 2	0.21 3	233.50+y	J1+2	y	J1	
240.5 2	0.58 5	240.51+u	J3+2	u	J3	
254.0& 2	0.12& 5	365.8+x	J+3	111.8+x	J+1	
254.0& 2	0.12& 5	366.1+y	J1+3	111.9+y	J1+1	
274.2 2	0.48 3	507.4+x	J+4	233.20+x	J+2	
275.2 2	0.30 5	508.5+y	J1+4	233.50+y	J1+2	
281.9 2	0.80 5	522.4+u	J3+4	240.51+u	J3+2	
291.0 2	0.17 3	291.00+z	J2+2	z	J2	
294.6& 2	0.38& 8	660.4+x	J+5	365.8+x	J+3	
294.6& 2	0.38& 8	660.9+y	J1+5	366.1+y	J1+3	
314.0 2	0.75 5	821.4+x	J+6	507.4+x	J+4	
315.2 2	0.53 5	823.5+y	J1+6	508.5+y	J1+4	
323.5 2	0.90 5	845.9+u	J3+6	522.4+u	J3+4	
328.8 2	0.72 4	619.8+z	J2+4	291.00+z	J2+2	
334.9& 2	0.61& 9	995.3+x	J+7	660.4+x	J+5	
334.9& 2	0.61& 9	996.0+y	J1+7	660.9+y	J1+5	
353.4 2	0.90 5	1174.7+x	J+8	821.4+x	J+6	
354.9 2	0.78 5	1178.3+y	J1+8	823.5+y	J1+6	
365.4 2	1.00 5	1211.3+u	J3+8	845.9+u	J3+6	
366.6 2	0.87 5	986.4+z	J2+6	619.8+z	J2+4	
374.5& 2	0.73& 18	1369.8+x	J+9	995.3+x	J+7	
374.5& 2	0.73& 16	1370.6+y	J1+9	996.0+y	J1+7	
391.9 2	0.96 5	1566.6+x	J+10	1174.7+x	J+8	
393.8 2	0.95 5	1572.1+y	J1+10	1178.3+y	J1+8	
405.0 2	0.98 7	1391.4+z	J2+8	986.4+z	J2+6	
406.5 2	1.00 5	1617.8+u	J3+10	1211.3+u	J3+8	
413.1& 2	1.00& 12	1782.9+x	J+11	1369.8+x	J+9	
413.1& 2	1.00& 12	1783.9+y	J1+11	1370.6+y	J1+9	
429.0 2	1.00 5	1995.6+x	J+12	1566.6+x	J+10	
432.1 2	1.02 8	2004.2+y	J1+12	1572.1+y	J1+10	
444.2 2	1.00 7	1835.6+z	J2+10	1391.4+z	J2+8	
447.5 2	0.98 5	2065.3+u	J3+12	1617.8+u	J3+10	
451.1@ 2		2234.0+x	J+13	1782.9+x	J+11	
451.1@ 2		2235.0+y	J1+13	1783.9+y	J1+11	
464.4 2	0.98 3	2460.1+x	J+14	1995.6+x	J+12	
469.8 2	1.00 8	2474.0+y	J1+14	2004.2+y	J1+12	
484.3 2	1.00 5	2319.9+z	J2+12	1835.6+z	J2+10	
488.1 2	0.95 5	2553.4+u	J3+14	2065.3+u	J3+12	
488.3& 2	0.96& 18	2722.3+x	J+15	2234.0+x	J+13	
488.3& 2	0.96& 18	2723.3+y	J1+15	2235.0+y	J1+13	
497.4 2	1.00 3	2957.5+x	J+16	2460.1+x	J+14	
506.2 2	1.00 14	2980.2+y	J1+16	2474.0+y	J1+14	
524.9& 2	0.98& 20	3247.2+x	J+17	2722.3+x	J+15	
524.9& 2	0.98& 20	3248.2+y	J1+17	2723.3+y	J1+15	

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(HI,xnγ):SD 1993Jo09,1994Jo10,1998Bu03 (continued)

γ(^{193}Hg) (continued)

E_γ[†]	I_γ[‡]	E_i(level)	J_i^π	E_f	J_f^π
525.9 *2*	0.98 *6*	2845.8+z	J2+14	2319.9+z	J2+12
527.9 *2*	1.05 *6*	3081.4+u	J3+16	2553.4+u	J3+14
528.2 *2*	1.11 *10*	3485.7+x	J+18	2957.5+x	J+16
541.5 *2*	0.82 *32*	3521.7+y	J1+18	2980.2+y	J1+16
558.5 *2*	0.94 *14*	4044.2+x	J+20	3485.7+x	J+18
559.9[&] *2*	1.08[&] *10*	3807.1+x	J+19	3247.2+x	J+17
559.9[&] *2*	1.08[&] *10*	3808.1+y	J1+19	3248.2+y	J1+17
566.7 *2*	0.98 *8*	3412.5+z	J2+16	2845.8+z	J2+14
567.2 *2*	1.00 *6*	3648.6+u	J3+18	3081.4+u	J3+16
576.8 *2*	0.63 *24*	4098.5+y	J1+20	3521.7+y	J1+18
590.0 *2*	0.73 *20*	4634.2+x	J+22	4044.2+x	J+20
594.9[@] *2*		4402.0+x	J+21	3807.1+x	J+19
594.9[@] *2*		4403.0+y	J1+21	3808.1+y	J1+19
605.0 *2*		4017.5+z	J2+18	3412.5+z	J2+16
606.3 *2*		4254.9+u	J3+20	3648.6+u	J3+18
611.3 *2*	0.43 *28*	4709.8+y	J1+22	4098.5+y	J1+20
622.6 *2*		5256.8+x	J+24	4634.2+x	J+22
628.8[&] *2*	0.85[&] *8*	5030.8+x	J+23	4402.0+x	J+21
628.8[&] *2*	0.85[&] *8*	5031.8+y	J1+23	4403.0+y	J1+21
640.5 *2*	0.82 *7*	4658.0+z	J2+20	4017.5+z	J2+18
644.3 *2*		5354.1+y	J1+24	4709.8+y	J1+22
644.5 *2*	0.90 *10*	4899.4+u	J3+22	4254.9+u	J3+20
655.7 *2*	0.40 *16*	5912.5+x	J+26	5256.8+x	J+24
661.7[&] *2*	0.52[&] *12*	5692.5+x	J+25	5030.8+x	J+23
661.7[&] *2*	0.52[&] *12*	5693.5+y	J1+25	5031.8+y	J1+23
674.5 *2*	0.80 *7*	5332.5+z	J2+22	4658.0+z	J2+20
677.8 *2*		6031.9+y	J1+26	5354.1+y	J1+24
681.9 *2*	0.70 *6*	5581.3+u	J3+24	4899.4+u	J3+22
688.5 *2*	0.18 *10*	6601.0+x	J+28	5912.5+x	J+26
694.1[&] *2*	0.56[&] *15*	6386.6+x	J+27	5692.5+x	J+25
694.1[&] *2*	0.56[&] *15*	6387.6+y	J1+27	5693.5+y	J1+25
707.5 *2*	0.72 *7*	6040.0+z	J2+24	5332.5+z	J2+22
709.9 *2*		6741.8+y	J1+28	6031.9+y	J1+26
718.6 *2*	0.60 *6*	6299.9+u	J3+26	5581.3+u	J3+24
721.3 *2*	0.39 *10*	7322.3+x	J+30	6601.0+x	J+28
725.6[&] *2*	0.45[&] *19*	7112.2+x	J+29	6386.6+x	J+27
725.6[&] *2*	0.45[&] *19*	7113.2+y	J1+29	6387.6+y	J1+27
739.3 *2*	0.61 *7*	6779.3+z	J2+26	6040.0+z	J2+24
742.2 *2*		7484.0+y	J1+30	6741.8+y	J1+28
753.2 *2*	0.55 *16*	8075.5+x	J+32	7322.3+x	J+30
754.5 *2*		7054.4+u	J3+28	6299.9+u	J3+26
756.6[&] *2*	0.38[&] *10*	7868.8+x	J+31	7112.2+x	J+29
756.6[&] *2*	0.38[&] *10*	7869.8+y	J1+31	7113.2+y	J1+29
769.7 *4*	0.46 *4*	7549.0+z	J2+28	6779.3+z	J2+26
771.2 *3*		8255.2+y	J1+32	7484.0+y	J1+30
784.9 *2*		8860.4+x	J+34	8075.5+x	J+32
787.3[@] *2*		8656.1+x	J+33	7868.8+x	J+31
787.3[@] *2*		8657.1+y	J1+33	7869.8+y	J1+31
789.8 *2*	0.42 *5*	7844.2+u	J3+30	7054.4+u	J3+28
801.3 *5*	0.36 *3*	8350.3+z	J2+30	7549.0+z	J2+28
802.2 *4*		9057.4+y	J1+34	8255.2+y	J1+32
816.6 *3*		9677.0+x	J+36	8860.4+x	J+34

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(HI,xnγ):SD 1993Jo09,1994Jo10,1998Bu03 (continued)

γ(^{193}Hg) (continued)

E_γ [†]	I_γ [‡]	E_i(level)	J_i^π	E_f	J_f^π	Comments
817.7[@] *3*		9473.8+x	J+35	8656.1+x	J+33	
817.7[@] *3*		9474.8+y	J1+35	8657.1+y	J1+33	
824.3 *3*	0.26 *5*	8668.5+u	J3+32	7844.2+u	J3+30	
831.3 *5*	0.21 *4*	9181.6+z	J2+32	8350.3+z	J2+30	
832.1 *5*		9889.5+y	J1+36	9057.4+y	J1+34	
847.5[@] *4*		10321.3+x	J+37	9473.8+x	J+35	
847.5[@] *4*		10322.3+y	J1+37	9474.8+y	J1+35	
847.8 *4*		10524.8+x	J+38	9677.0+x	J+36	
857.9 *5*	0.24 *5*	9526.4+u	J3+34	8668.5+u	J3+32	
860.5 *5*		10750.0+y	J1+38	9889.5+y	J1+36	
861[a]	0.15 *3*	10042.6+z?	J2+34	9181.6+z	J2+32	E_γ: estimated (1998Ar07) from intensity plot (fig.1 in 1994Jo10).
876.1[@] *5*		11197.4+x	J+39	10321.3+x	J+37	
876.1[@] *5*		11198.4+y	J1+39	10322.3+y	J1+37	
880.9 *5*		11405.7+x	J+40	10524.8+x	J+38	

[†] From 1994Jo10, unless otherwise noted.
[‡] Relative intensity within each band, read off intensity plots given by 1992ShZR for SD-1 to SD-4 and by 1994Jo10 for SD-5 and SD-6.
[#] From 1993Jo09.
[@] Multiply placed.
[&] Multiply placed with undivided intensity.
[a] Placement of transition in the level scheme is uncertain.

(HI,xnγ):SD 1993Jo09,1994Jo10,1998Bu03

Level Scheme

Intensities: Relative I(γ+ce) within each band

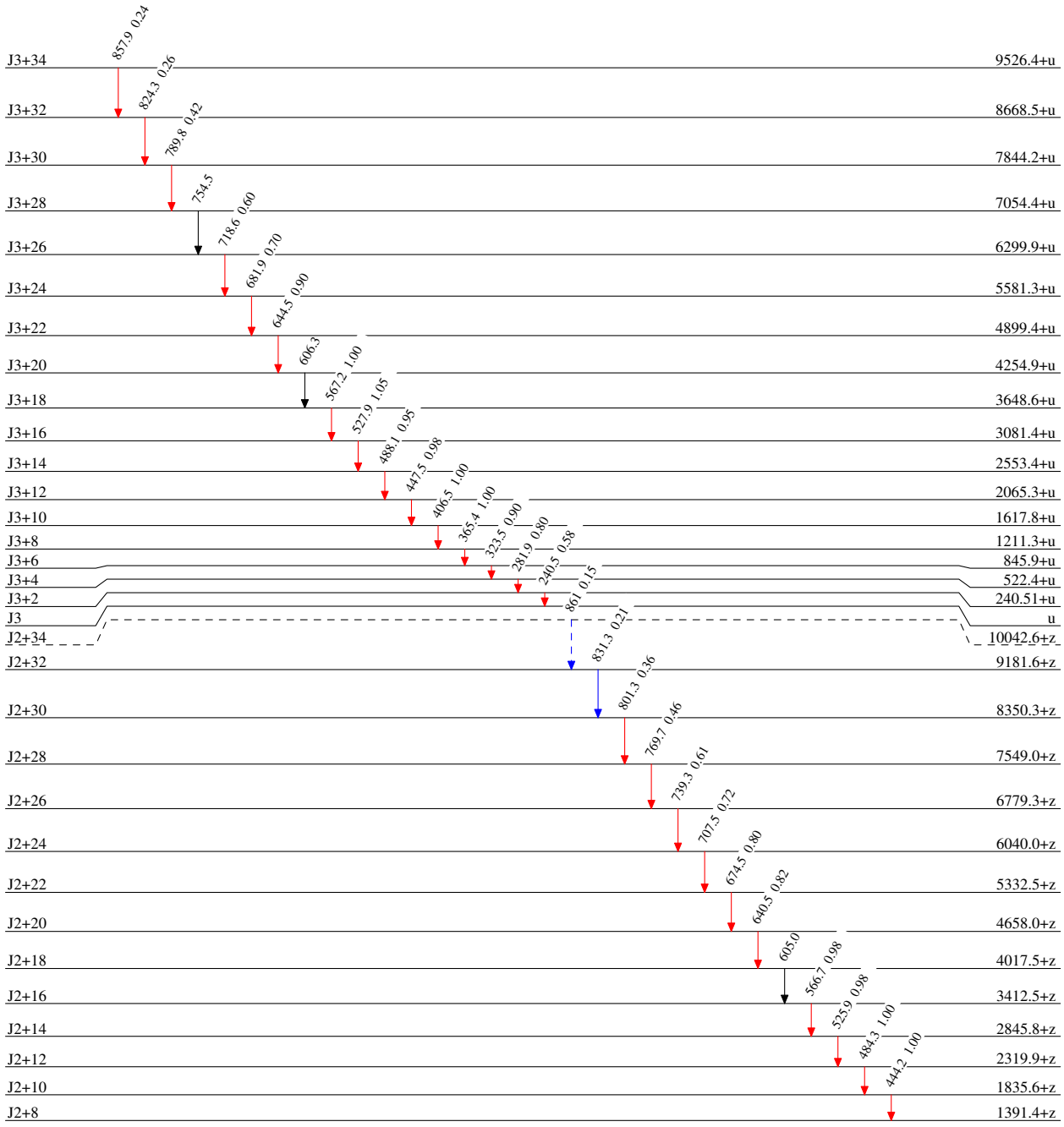
Legend

$I_\gamma < 2\% \times I_\gamma^{max}$

$I_\gamma < 10\% \times I_\gamma^{max}$

$I_\gamma > 10\% \times I_\gamma^{max}$

γ Decay (Uncertain)



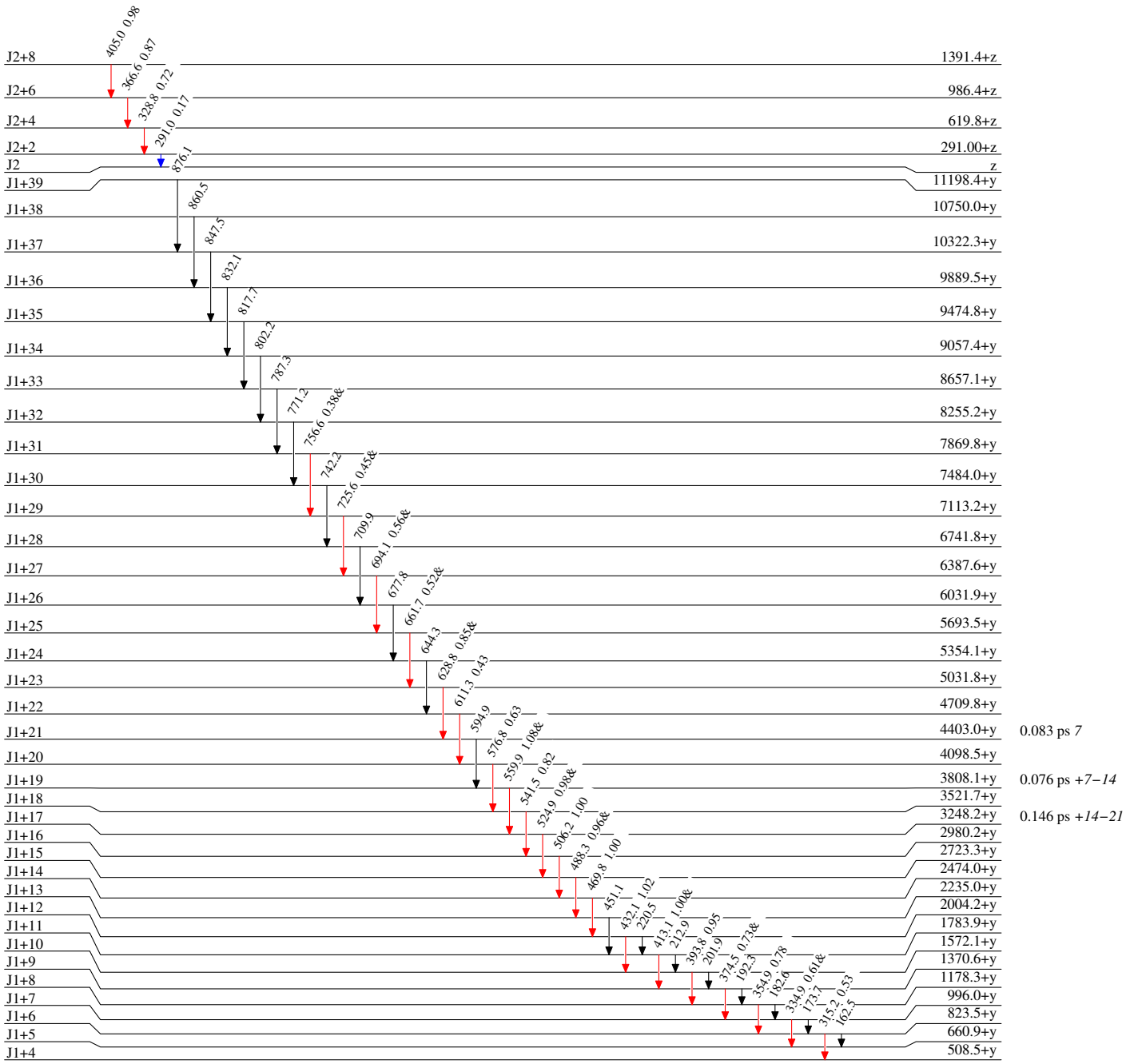
$^{193}_{80}Hg_{113}$

(HI,xnγ):SD 1993Jo09,1994Jo10,1998Bu03

Level Scheme (continued)

Intensities: Relative I(γ+ce) within each band
& Multiply placed: undivided intensity given

Legend
$I_\gamma < 2\% \times I_\gamma^{max}$
$I_\gamma < 10\% \times I_\gamma^{max}$
$I_\gamma > 10\% \times I_\gamma^{max}$



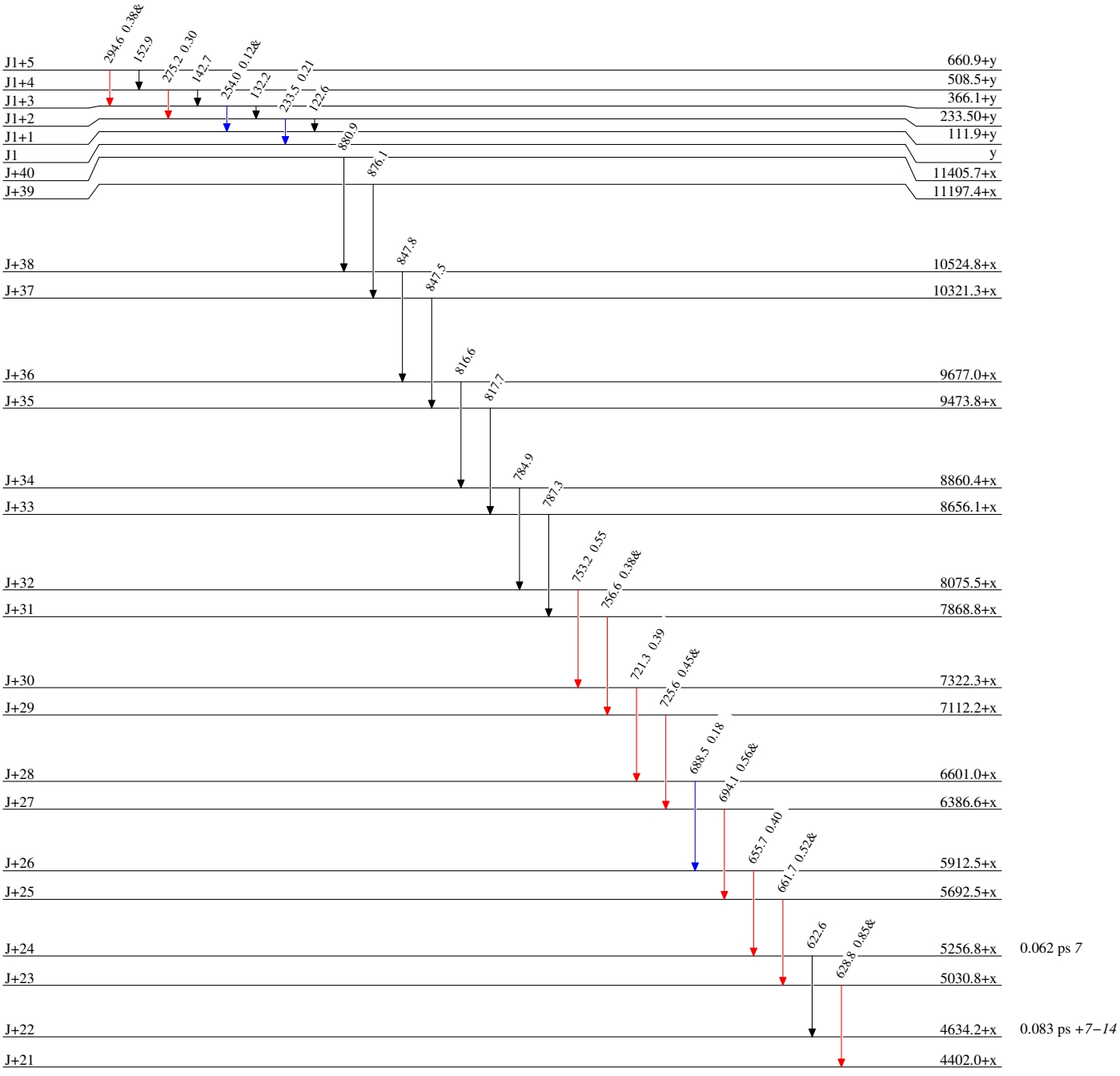
$^{193}_{80}Hg_{113}$

(HI,xnγ):SD 1993Jo09,1994Jo10,1998Bu03

Level Scheme (continued)

Intensities: Relative I(γ+ce) within each band
& Multiply placed: undivided intensity given

Legend
$I_\gamma < 2\% \times I_\gamma^{max}$
$I_\gamma < 10\% \times I_\gamma^{max}$
$I_\gamma > 10\% \times I_\gamma^{max}$



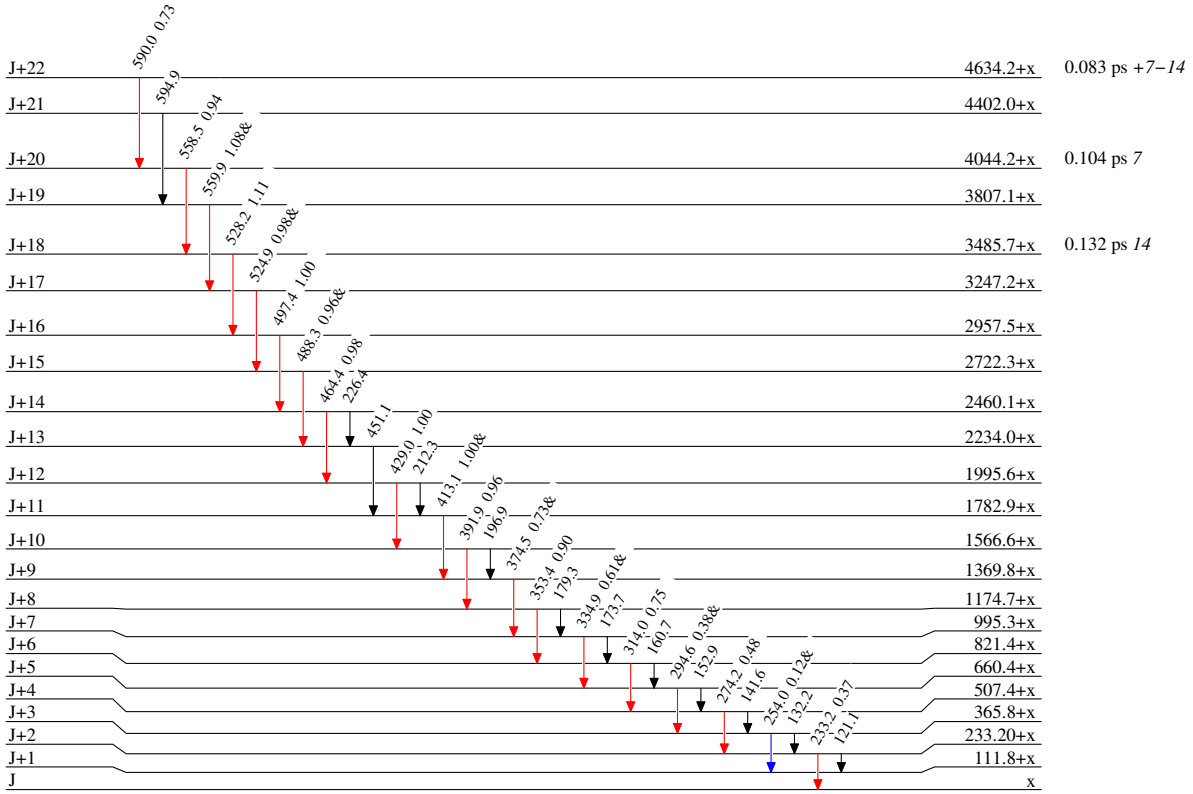
$^{193}_{80}Hg_{113}$

(HI,xnγ):SD 1993Jo09,1994Jo10,1998Bu03

Level Scheme (continued)

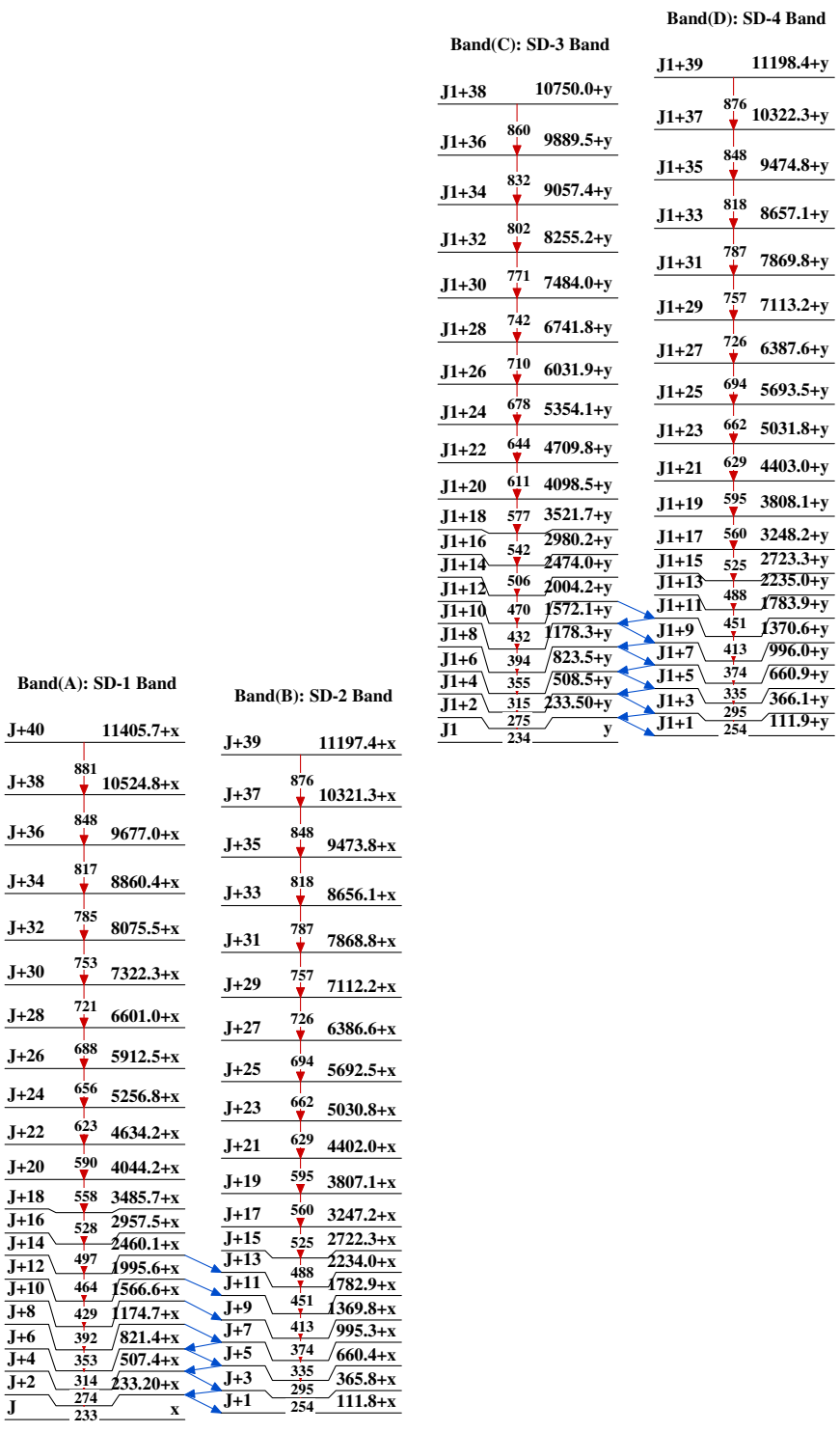
Intensities: Relative I(γ+ce) within each band
& Multiply placed: undivided intensity given

Legend
$I_\gamma < 2\% \times I_\gamma^{max}$
$I_\gamma < 10\% \times I_\gamma^{max}$
$I_\gamma > 10\% \times I_\gamma^{max}$



$^{193}_{80}Hg_{113}$

(HI,xnγ):SD 1993Jo09,1994Jo10,1998Bu03



$^{193}_{80}Hg_{113}$

(HI,xnγ):SD 1993Jo09,1994Jo10,1998Bu03 (continued)