(HI,xnγ) 1993Ko25,2006Wa19,2007Wa09

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	H. Iimura, J. Katakura, S. Ohya	NDS 180, 1 (2022)	1-Oct-2021

2011Gr12: ^{120}Sn(^{10}B,4n) E=55 MeV, γγ, DSAM.
1993Ko25,2006Wa19,2007Wa09: ^{116}Cd(^{14}N,4n) E=65 MeV, γγ, γ(θ), DCO.
2003Li30,2002Li63: ^{116}Cd(^{14}N,4n) E=65 MeV, γγ, DCO.
1993KoZP: ^{118}Sn(^{11}B,3n) E=45 MeV, γγ, linear polarization.
1991KoZP: ^{118}Sn(^{11}B,3n) E=45 MeV, γγ.
1991TaZX: ^{118}Sn(^{11}B,3n) E=45 MeV, enriched target 95.75 %, γγ(t).
1979GaZW: ^{120}Sn(^{10}B,4nγ) γγ, γ(θ), beam-γ coin. Measured data not given.

^{126}Cs Levels

E(level)[†]	Jπ[‡]	$T_{1/2}$[#]	Comments
0.0	1^+	1.643 min *17*	$T_{1/2}$: from Adopted Levels.
217.8 *8*			Jπ: J=1^+ is reported from γ(θ) and linear polarization (1993KoZP). However, this assignment is inconsistent with γ from $(4)^-$ 273 keV level and γ sequences from (9^+) 760 keV level.
241.1 *3*	$0^-,1^-,2^-$		Jπ: from Adopted Levels.
272.5[d] *4*	$(4)^-$	≥1 μs	Jπ: From Gallagher-Moszkowski coupling rule for expected Nilsson orbitals (2003Li30). This assignment is supported from measured B(M1)/B(E2) ratios of bands 5 and 6 (2007Wa09). $T_{1/2}$: From 1991TaZX.
335.1 *4*			
345.7 *10*			
347.8 *10*			
372.4[c] *4*	$(5)^-$		
403.0 *4*			
421.7 *10*			
457.5[f] *4*	$(5)^-$		
482.8[d] *4*	$(6)^-$		
495.7 *10*			
513.2 *10*			
553.0 *4*			
574.6 *12*			
585.8[e] *4*	$(6)^-$		
595.1 *8*		171 μs *14*	$T_{1/2}$: From 1991TaZX.
625.6 *10*			Jπ: J=3^+ is reported from γ(θ) and linear polarization on the assumption of J=1^+ for the 218 keV level(1993KoZP).
634.8[j] *4*	$(6)^-$		
643.9[c] *4*	$(7)^-$		
675.6 *10*			Jπ: J=3^+ is reported from γ(θ) and linear polarization on the assumption of J=1^+ for the 218 keV level(1993KoZP).
710.6 *12*			Jπ: J=4^+ is reported from γ(θ) and linear polarization on the assumption of J=3^+ for the 626 keV level(1993KoZP).
725.3[g] *4*	$(6)^-$		
738.2[f] *4*	$(7)^-$		
759.6[b] *15*	(9^+)		Jπ: From systematics of doubly odd Cs isotopes (1998Li36). J=5^+ is reported from γ(θ) and DCO on the assumption of J=4^+ for the 711 keV level (1993Ko25).
797.3[d] *4*	$(8)^-$		
811.9[h] *4*	$(7)^-$		
819.0[i] *4*	$(7)^-$		
900.3[a] *16*	(10^+)		

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(HI,xnγ) 1993Ko25,2006Wa19,2007Wa09 (continued)

^{126}Cs Levels (continued)

E(level)[†]	J$^{\pi}$[‡]	T$_{1/2}$[#]
915.8[e] *4*	(8)$^-$	
955.4[g] *4*	(8)$^-$	
1028.4[j] *4*	(8)$^-$	
1126.4[f] *4*	(9)$^-$	
1166.8[h] *4*	(9)$^-$	
1180.9[c] *5*	(9)$^-$	
1221.3[i] *4*	(9)$^-$	
1237.9[b] *16*	(11$^+$)	
1336.5[d] *5*	(10)$^-$	
1397.0[@] *16*	(11$^+$)	
1429.8[g] *4*	(10)$^-$	
1477.8[e] *5*	(10)$^-$	
1492.6[a] *16*	(12$^+$)	
1595.6[j] *5*	(10)$^-$	
1688.0[k] *5*	(10)$^-$	
1696.4[f] *5*	(11)$^-$	
1731.1[h] *5*	(11)$^-$	
1759.1[&] *16*	(12$^+$)	
1814.2[i] *5*	(11)$^-$	
1888.2[b] *16*	(13$^+$)	
1893.3[c] *5*	(11)$^-$	
2045.0[d] *5*	(12)$^-$	
2086.1[@] *16*	(13$^+$)	
2099.2[g] *5*	(12)$^-$	
2205.5[e] *5*	(12)$^-$	
2231.6[a] *16*	(14$^+$)	0.86 ps *22*
2283.1 *19*		
2305.1[k] *5*	(12)$^-$	
2342.2[j] *5*	(12)$^-$	
2419.6[f] *5*	(13)$^-$	
2430.5[&] *16*	(14$^+$)	0.56 ps *12*
2476.3[h] *5*	(13)$^-$	
2574.1[i] *5*	(13)$^-$	
2695.0[b] *16*	(15$^+$)	0.47 ps *+17−13*
2745.7[c] *5*	(13)$^-$	
2857.1[@] *16*	(15$^+$)	0.74 ps *+28−21*
2864.1 *21*		
2891.0[d] *5*	(14)$^-$	
2934.2[g] *5*	(14)$^-$	
3052.4[k] *5*	(14)$^-$	
3081.7[e] *5*	(14)$^-$	
3110.3[a] *16*	(16$^+$)	0.53 ps *+13−11*
3203.2[j] *6*	(14)$^-$	
3280.6[f] *6*	(15)$^-$	
3331.9[&] *16*	(16$^+$)	0.51 ps *+15−14*
3341.8[h] *5*	(15)$^-$	
3413.6[i] *5*	(15)$^-$	
3515.5 *5*		

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(HI,xnγ) 1993Ko25,2006Wa19,2007Wa09 (continued)

^{126}Cs Levels (continued)

E(level)[†]	Jπ[‡]	$T_{1/2}$[#]	Comments
3606.0[b] *16*	(17+)	0.58 ps *14*	
3651.2[c] *6*	(15)−		
3772.3[g] *5*	(16)−		
3793.3[@] *16*	(17+)	0.54 ps *12*	
3858.7[d] *6*	(16)−		
4071.0[a] *16*	(18+)	0.35 ps *7*	
4082.0[e] *6*	(16)−		
4085.7[j] *7*	(16)−		
4149.7[h] *5*	(17)−		
4262.3[f] *7*	(17)−		
4345.0[&] *16*	(18+)		
4568.2[c] *7*	(17)−		
4578.8[g] *5*	(18)−		
4598.9[b] *16*	(19+)	0.29 ps *+11−9*	
4800.9[@] *16*	(19+)	0.69 ps *+20−18*	
4826.8[d] *7*	(18)−		
4981.9[h] *5*	(19)−		
5097.0[e] *7*	(18)−		
5116.5[a] *16*	(20+)	0.47 ps *12*	
5294.7[f] *7*	(19)−		
5391.2[&] *16*	(20+)		
5443.3[g] *6*	(20)−		
5524.0[c] *7*	(19)−		
5670.9[b] *16*	(21+)	0.35 ps *10*	
5844.8[d] *7*	(20)−		
5866.9[@] *16*	(21+)		
5897.4[h] *6*	(21)−		
6251.7[a] *16*	(22+)		
6389.8[g] *6*	(22)−		
6455.7[&] *16*	(22+)		
6819.2[b] *16*	(23+)		
6902.2[h] *6*	(23)−		
6973.7[@] *16*	(23+)		
7420.2[g] *7*	(24)−		
7450.2[a] *16*	(24+)		
7967.2[b] *16*	(25+)		
8687.2[a] *19*			
0.0+x[m]	(8)−		Additional information 1. E(level): no connection to any other levels is observed. Jπ: From comparison of measured B(M1)/B(E2) ratios of bands 14 and 15 with those expected for Nilsson orbitals (2007Wa09).
224.32+x[l] *24*	(9)−		
498.28+x[m] *24*	(10)−		
839.4+x[l] *3*	(11)−		
1226.3+x[m] *3*	(12)−		
1650.8+x[l] *4*	(13)−		
2107.3+x[m] *4*	(14)−		
2593.8+x[l] *4*	(15)−		

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(HI,xnγ) 1993Ko25,2006Wa19,2007Wa09 (continued)

^{126}Cs Levels (continued)

E(level)[†]	Jπ[‡]
3105.3+x[m] 5	(16)⁻
3630.8+x[l] 5	(17)⁻

[†] From a least-squares fit to E(γ's) by evaluators, assuming ΔEγ=0.3 keV for 2006Wa19 and 2007Wa09, and ΔEγ=1 keV for others.
[‡] From 2003Li30, 2006Wa19 and 2007Wa09 based on band structure, DCO, and γ-ray angular distribution ratio, unless otherwise noted.
[#] From 2011Gr12, unless otherwise noted.
[@] Band(A): Band 1, signature partner of band 2. Possible configuration is $((\pi\ h_{11/2})(\nu\ h_{11/2}))$.
[&] Band(B): Band 2, signature partner of band 1. Possible configuration is $((\pi\ h_{11/2})(\nu\ h_{11/2}))$.
[a] Band(C): Band 3, signature partner of band 4, Configuration=$((\pi\ h_{11/2})(\nu\ h_{11/2}))$.
[b] Band(D): Band 4, signature partner of band 3, Configuration=$((\pi\ h_{11/2})(\nu\ h_{11/2}))$.
[c] Band(E): Band 5, signature partner of band 6. Possible configuration is $((\pi\ d_{5/2})(\nu\ h_{11/2}))$.
[d] Band(F): Band 6, signature partner of band 5. Possible configuration is $((\pi\ d_{5/2})(\nu\ h_{11/2}))$.
[e] Band(G): Band 7, signature partner of band 8. Possible configuration is $((\pi\ g_{7/2})(\nu\ h_{11/2}))$.
[f] Band(H): Band 8, signature partner of band 7. Possible configuration is $((\pi\ g_{7/2})(\nu\ h_{11/2}))$.
[g] Band(I): Band 9, signature partner of band 10. Possible configuration is $((\pi\ h_{11/2})(\nu\ g_{7/2}))$.
[h] Band(J): Band 10, signature partner of band 9. Possible configuration is $((\pi\ h_{11/2})(\nu\ g_{7/2}))$.
[i] Band(K): Band 11. Possible configuration is $((\pi\ h_{11/2})(\nu\ d_{3/2}))$.
[j] Band(L): Band 12. Possible configuration is $((\pi\ h_{11/2})(\nu\ s_{1/2}))$.
[k] Band(M): Band 13.
[l] Band(N): Band 14, signature partner of band 15. Possible configuration is $((\pi\ g_{9/2})(\nu\ h_{11/2}))$.
[m] Band(O): Band 15, signature partner of band 14. Possible configuration is $((\pi\ g_{9/2})(\nu\ h_{11/2}))$.

γ(^{126}Cs)

DCO from 2003Li30, gated on ΔJ=2 transitions. DCO≈0.5-0.7 are expected for ΔJ=1 transitions, and DCO≈1.0 for ΔJ=2 transitions.
R_{ADO} (γ-ray angular distribution ratio from oriented nuclei) from 2006Wa19. R_{ADO}=1.4 are expected for streched Q transitions or ΔJ=0 D transitions, whereas R_{ADO}=0.7 for streched D transitions.

E_γ[†]	I_γ[#]	E_i(level)	J_i^π	E_f	J_f^π	Comments
31.0		272.5	(4)⁻	241.1	0⁻,1⁻,2⁻	
35[‡]		710.6		675.6		
49[‡]		759.6	(9⁺)	710.6		Mult.: Mult=D from γ(θ) and DCO (1993Ko25).
51[‡]		625.6		574.6		
55[‡]		272.5	(4)⁻	217.8		
68.0		403.0		335.1		
74[&‡]		421.7		347.8		
74[&‡]		495.7		421.7		
82.0		634.8	(6)⁻	553.0		
85[‡]		710.6		625.6		Mult.: Mult=D from γ(θ) and DCO (1993Ko25).
85.2	<3	457.5	(5)⁻	372.4	(5)⁻	
86.5	9 *2*	811.9	(7)⁻	725.3	(6)⁻	DCO=0.64 *21*
90.4 *10*	<3	725.3	(6)⁻	634.8	(6)⁻	E_γ: From 2003Li30.

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(HI,xnγ) 1993Ko25,2006Wa19,2007Wa09 (continued)

γ(^{126}Cs) (continued)

E_γ[†]	I_γ[#]	E_i(level)	J_i^π	E_f	J_f^π	Comments
93.5	3 *1*	819.0	$(7)^-$	725.3	$(6)^-$	
94.1		335.1		241.1	$0^-,1^-,2^-$	
95.5	4 *1*	1492.6	(12^+)	1397.0	(11^+)	R_{ADO}=0.9 *3*.
99.5	37 *3*	372.4	$(5)^-$	272.5	$(4)^-$	DCO=0.60 *8*
103.0		585.8	$(6)^-$	482.8	$(6)^-$	
110.5	21 *3*	482.8	$(6)^-$	372.4	$(5)^-$	DCO=0.57 *9*
112[‡]		595.1		482.8	$(6)^-$	
112[‡]		625.6		513.2		
128[‡]		345.7		217.8		
128.1	8 *1*	585.8	$(6)^-$	457.5	$(5)^-$	DCO=0.70 *10*
130[‡]		347.8		217.8		
136.5	3 *1*	955.4	$(8)^-$	819.0	$(7)^-$	
140.8	88 *5*	900.3	(10^+)	759.6	(9^+)	DCO=0.67 *7* R_{ADO}=0.93 *6*.
143.5	16 *2*	955.4	$(8)^-$	811.9	$(7)^-$	DCO=0.64 *14*
145.4	<3	2231.6	(14^+)	2086.1	(13^+)	R_{ADO}=0.85 *25*.
148[‡]		495.7		347.8		
150[‡]		495.7		345.7		
150.1		553.0		403.0		
152.0	<2	634.8	$(6)^-$	482.8	$(6)^-$	
152.0		2045.0	$(12)^-$	1893.3	$(11)^-$	
152.5	16 *3*	738.2	$(7)^-$	585.8	$(6)^-$	DCO=0.63 *15*
153[‡]		574.6		421.7		
153.4	19 *3*	797.3	$(8)^-$	643.9	$(7)^-$	DCO=0.57 *11*
155.5	4 *1*	1336.5	$(10)^-$	1180.9	$(9)^-$	
161.0	21 *3*	643.9	$(7)^-$	482.8	$(6)^-$	DCO=0.67 *10*
162[‡]		675.6		513.2		
162.1		403.0		241.1	$0^-,1^-,2^-$	
165[‡]		513.2		347.8		
172.3		725.3	$(6)^-$	553.0		
177.0		811.9	$(7)^-$	634.8	$(6)^-$	
177.5	16 *2*	915.8	$(8)^-$	738.2	$(7)^-$	DCO=0.68 *12*
180[‡]		675.6		495.7		
184.5	5 *1*	819.0	$(7)^-$	634.8	$(6)^-$	DCO=0.94 *23*
184.8	9 *2*	457.5	$(5)^-$	272.5	$(4)^-$	DCO=0.55 *15*
193.0		1221.3	$(9)^-$	1028.4	$(8)^-$	
204[&‡]		421.7		217.8		
204[&‡]		625.6		421.7		
208.7	3 *1*	1429.8	$(10)^-$	1221.3	$(9)^-$	
210.4	<2	482.8	$(6)^-$	272.5	$(4)^-$	
210.4	12 *3*	1126.4	$(9)^-$	915.8	$(8)^-$	DCO=0.53 *11*
211.4	14 *2*	1166.8	$(9)^-$	955.4	$(8)^-$	DCO=0.66 *22*
213.4	11 *2*	585.8	$(6)^-$	372.4	$(5)^-$	DCO=0.48 *11*
214.0		2419.6	$(13)^-$	2205.5	$(12)^-$	
218[‡]	100	217.8		0.0	1^+	
218.0		553.0		335.1		
218.4	3 *1*	1696.4	$(11)^-$	1477.8	$(10)^-$	
223[‡]		595.1		372.4	$(5)^-$	
224.2		224.32+x	$(9)^-$	0.0+x	$(8)^-$	
230.0		955.4	$(8)^-$	725.3	$(6)^-$	
231.2		1028.4	$(8)^-$	797.3	$(8)^-$	
232.0		634.8	$(6)^-$	403.0		

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(HI,xnγ) 1993Ko25,2006Wa19,2007Wa09 (continued)

γ(^{126}Cs) (continued)

E_γ †	I_γ #	E_i(level)	J_i^π	E_f	J_f^π	Comments
241.1		241.1	$0^-,1^-,2^-$	0.0	1^+	
242.5	<2	725.3	$(6)^-$	482.8	$(6)^-$	
253.0	11.0@ *12*	3110.3	(16^+)	2857.1	(15^+)	R_{ADO}=0.69 *13*.
254.8	36 *3*	1492.6	(12^+)	1237.9	(11^+)	DCO=0.65 *9* R_{ADO}=0.70 *8*.
255.5	4 *1*	738.2	$(7)^-$	482.8	$(6)^-$	DCO=0.51 *13*
258.7		1595.6	$(10)^-$	1336.5	$(10)^-$	
262.3	5 *1*	634.8	$(6)^-$	372.4	$(5)^-$	DCO=0.59 *14*
262.7	10 *1*	1429.8	$(10)^-$	1166.8	$(9)^-$	DCO=0.57 *14*
264	≤2	2695.0	(15^+)	2430.5	(14^+)	E_γ: From 2011Gr12. I_γ: From 2011Gr12, normalized to I(463.5γ)=18 by evaluators.
266.0	5 *1*	1221.3	$(9)^-$	955.4	$(8)^-$	DCO=0.58 *12*
271.5	3 *1*	643.9	$(7)^-$	372.4	$(5)^-$	
271.8		915.8	$(8)^-$	643.9	$(7)^-$	
274.0		498.28+x	$(10)^-$	224.32+x	$(9)^-$	
274	≤2	3606.0	(17^+)	3331.9	(16^+)	E_γ: From 2011Gr12. I_γ: From 2011Gr12, normalized to I(495.8γ)=8 by evaluators.
277.5	<3	4071.0	(18^+)	3793.3	(17^+)	R_{ADO}=0.66 *19*.
278‡		495.7		217.8		
280.7	5 *1*	738.2	$(7)^-$	457.5	$(5)^-$	DCO=0.95 *19*
285.0		2099.2	$(12)^-$	1814.2	$(11)^-$	
295‡		513.2		217.8		
297.0		1477.8	$(10)^-$	1180.9	$(9)^-$	
297.3		2342.2	$(12)^-$	2045.0	$(12)^-$	
301.1	10 *1*	1731.1	$(11)^-$	1429.8	$(10)^-$	DCO=0.64 *10*
314.2	9 *1*	797.3	$(8)^-$	482.8	$(6)^-$	DCO=1.00 *15*
315.5	1.9@ *5*	5116.5	(20^+)	4800.9	(19^+)	
327.1	6 *2*	2086.1	(13^+)	1759.1	(12^+)	DCO=0.72 *11* R_{ADO}=0.64 *19*.
328‡		675.6		347.8		
329.0		1126.4	$(9)^-$	797.3	$(8)^-$	
330‡		675.6		345.7		
330.0	8 *2*	915.8	$(8)^-$	585.8	$(6)^-$	DCO=0.92 *24*
336.5		819.0	$(7)^-$	482.8	$(6)^-$	
337.5	51 *4*	1237.9	(11^+)	900.3	(10^+)	DCO=0.56 *7* R_{ADO}=0.65 *9*.
341.0		839.4+x	$(11)^-$	498.28+x	$(10)^-$	
343.2	8 *1*	2231.6	(14^+)	1888.2	(13^+)	DCO=0.61 *10* R_{ADO}=0.74 *11*.
344.4	5.6@ *10*	2430.5	(14^+)	2086.1	(13^+)	R_{ADO}=0.71 *22*.
351.5	4 *1*	1477.8	$(10)^-$	1126.4	$(9)^-$	
352.5	7 *1*	725.3	$(6)^-$	372.4	$(5)^-$	DCO=0.55 *14*
354.7	5 *1*	1166.8	$(9)^-$	811.9	$(7)^-$	
360.0		1696.4	$(11)^-$	1336.5	$(10)^-$	
360.2		2934.2	$(14)^-$	2574.1	$(13)^-$	
361.9	7 *1*	1759.1	(12^+)	1397.0	(11^+)	DCO=0.61 *12* R_{ADO}=0.59 *17*.
368.2	7 *2*	2099.2	$(12)^-$	1731.1	$(11)^-$	DCO=0.72 *18*
369.7		1166.8	$(9)^-$	797.3	$(8)^-$	
377.1		2476.3	$(13)^-$	2099.2	$(12)^-$	
377.5		4149.7	$(17)^-$	3772.3	$(16)^-$	
383.5	8 *1*	1180.9	$(9)^-$	797.3	$(8)^-$	DCO=0.67 *16*
384.2		1814.2	$(11)^-$	1429.8	$(10)^-$	
384.5		1028.4	$(8)^-$	643.9	$(7)^-$	

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(HI,xnγ) 1993Ko25,2006Wa19,2007Wa09 (continued)

γ(^{126}Cs) (continued)

E_γ[†]	I_γ[#]	E_i(level)	J_i^π	E_f	J_f^π	Comments
387.0		1226.3+x	$(12)^-$	839.4+x	$(11)^-$	
388.4	5 *2*	1126.4	$(9)^-$	738.2	$(7)^-$	
393.9		1028.4	$(8)^-$	634.8	$(6)^-$	
395.7	38 *3*	1888.2	(13^+)	1492.6	(12^+)	DCO=0.60 *9* R_{ADO}=0.66 *8*.
402.5	7 *1*	1221.3	$(9)^-$	819.0	$(7)^-$	DCO=0.97 *12*
403.0		4981.9	$(19)^-$	4578.8	$(18)^-$	
407.8		3341.8	$(15)^-$	2934.2	$(14)^-$	
408[‡]		625.6		217.8		Mult.: Mult=Q from γ(θ) and DCO (1993Ko25).
415.5	2.2[@] *4*	3110.3	(16^+)	2695.0	(15^+)	
424.8		1650.8+x	$(13)^-$	1226.3+x	$(12)^-$	
426.5	17 *2*	2857.1	(15^+)	2430.5	(14^+)	DCO=0.58 *10* R_{ADO}=0.66 *16*.
429.2		4578.8	$(18)^-$	4149.7	$(17)^-$	
430.5		3772.3	$(16)^-$	3341.8	$(15)^-$	
439.5		811.9	$(7)^-$	372.4	$(5)^-$	
454.0		5897.4	$(21)^-$	5443.3	$(20)^-$	
456.5		2107.3+x	$(14)^-$	1650.8+x	$(13)^-$	
457.7	<2	2934.2	$(14)^-$	2476.3	$(13)^-$	
458[‡]		675.6		217.8		Mult.: Mult=Q from γ(θ) and DCO (1993Ko25).
461.1	<2	3793.3	(17^+)	3331.9	(16^+)	
461.5		5443.3	$(20)^-$	4981.9	$(19)^-$	
463.5	18 *2*	2695.0	(15^+)	2231.6	(14^+)	DCO=0.63 *11* R_{ADO}=0.66 *8*.
465	≤2	4071.0	(18^+)	3606.0	(17^+)	E_γ: From 2011Gr12. I_γ: From 2011Gr12, normalized to I(960.7γ)=14 by evaluators.
474.5	8 *1*	1429.8	$(10)^-$	955.4	$(8)^-$	DCO=0.96 *12*
475.0		2574.1	$(13)^-$	2099.2	$(12)^-$	
475	≤2	3331.9	(16^+)	2857.1	(15^+)	E_γ: From 2011Gr12. I_γ: From 2011Gr12, normalized to I(637.0γ)=6 by evaluators.
478.1	<2	1237.9	(11^+)	759.6	(9^+)	
479.1		3413.6	$(15)^-$	2934.2	$(14)^-$	
482.5		1126.4	$(9)^-$	643.9	$(7)^-$	
486.5		2593.8+x	$(15)^-$	2107.3+x	$(14)^-$	
492.2		6389.8	$(22)^-$	5897.4	$(21)^-$	
495.8	8 *1*	3606.0	(17^+)	3110.3	(16^+)	DCO=0.52 *10* R_{ADO}=0.68 *13*.
496.5	17 *2*	1397.0	(11^+)	900.3	(10^+)	DCO=0.57 *9* R_{ADO}=0.59 *8*.
498.4		498.28+x	$(10)^-$	0.0+x	$(8)^-$	
509.1		2205.5	$(12)^-$	1696.4	$(11)^-$	
511.5		3105.3+x	$(16)^-$	2593.8+x	$(15)^-$	
512.4		6902.2	$(23)^-$	6389.8	$(22)^-$	
514.0		1429.8	$(10)^-$	915.8	$(8)^-$	
518	≤2	5116.5	(20^+)	4598.9	(19^+)	E_γ: From 2011Gr12. I_γ: From 2011Gr12, normalized to I(1045.5γ)=7 by evaluators.
521.1		1688.0	$(10)^-$	1166.8	$(9)^-$	
521.1	19 *2*	1759.1	(12^+)	1237.9	(11^+)	DCO=0.62 *13* R_{ADO}=0.72 *8*.
522.8		1166.8	$(9)^-$	643.9	$(7)^-$	
524[‡]		2283.1		1759.1	(12^+)	
525.5		3630.8+x	$(17)^-$	3105.3+x	$(16)^-$	
527.7	5 *1*	4598.9	(19^+)	4071.0	(18^+)	DCO=0.68 *18*
537.0	3 *1*	1180.9	$(9)^-$	643.9	$(7)^-$	
539.3	17 *2*	1336.5	$(10)^-$	797.3	$(8)^-$	DCO=0.96 *10*

Continued on next page (footnotes at end of table)

(HI,xnγ) 1993Ko25,2006Wa19,2007Wa09 (continued)

γ(^{126}Cs) (continued)

E_γ [†]	I_γ [#]	E_i(level)	J_i^π	E_f	J_f^π	Comments
542.5	18 *2*	2430.5	(14^+)	1888.2	(13^+)	DCO=0.56 *9* R_{ADO}=0.64 *6*.
554.5	<3	5670.9	(21^+)	5116.5	(20^+)	
557.0	5 *1*	1893.3	$(11)^-$	1336.5	$(10)^-$	
561.8	4 *1*	1477.8	$(10)^-$	915.8	$(8)^-$	
564.3	16 *2*	1731.1	$(11)^-$	1166.8	$(9)^-$	DCO=1.12 *17*
567.5		1595.6	$(10)^-$	1028.4	$(8)^-$	
570.1	11 *2*	1696.4	$(11)^-$	1126.4	$(9)^-$	DCO=0.94 *16*
574.0		2305.1	$(12)^-$	1731.1	$(11)^-$	
576.3		3052.4	$(14)^-$	2476.3	$(13)^-$	
581[‡]		2864.1		2283.1		
592.5	43 *4*	1492.6	(12^+)	900.3	(10^+)	DCO=1.00 *9* R_{ADO}=1.36 *19*.
593.0	8 *1*	1814.2	$(11)^-$	1221.3	$(9)^-$	DCO=1.01 *15*
593.5	6 *2*	2086.1	(13^+)	1492.6	(12^+)	R_{ADO}=0.74 *20*.
614.9		839.4+x	$(11)^-$	224.32+x	$(9)^-$	
617.0		2305.1	$(12)^-$	1688.0	$(10)^-$	
626	≤3	2857.1	(15^+)	2231.6	(14^+)	E_γ: From 2011Gr12. I_γ: From 2011Gr12, normalized to I(426.5γ)=17 by evaluators.
632.2		1429.8	$(10)^-$	797.3	$(8)^-$	
634.2		4149.7	$(17)^-$	3515.5		
637.0	6 *1*	3331.9	(16^+)	2695.0	(15^+)	R_{ADO}=0.66 *14*.
637.5	7 *1*	1397.0	(11^+)	759.6	(9^+)	DCO=1.05 *22* R_{ADO}=1.4 *3*.
650.5	6 *1*	1888.2	(13^+)	1237.9	(11^+)	DCO=1.04 *16* R_{ADO}=1.4 *4*.
661.9		3081.7	$(14)^-$	2419.6	$(13)^-$	
669.3	8 *1*	2099.2	$(12)^-$	1429.8	$(10)^-$	DCO=0.90 *13*
671.1	6 *2*	2430.5	(14^+)	1759.1	(12^+)	DCO=1.10 *24* R_{ADO}=1.4 *5*.
679.8	<2	3110.3	(16^+)	2430.5	(14^+)	
683	≤1	3793.3	(17^+)	3110.3	(16^+)	E_γ: From 2011Gr12. I_γ: From 2011Gr12, normalized to I(936.1γ)=8 by evaluators.
689.3	13 *2*	2086.1	(13^+)	1397.0	(11^+)	DCO=0.97 *14* R_{ADO}=1.4 *3*.
700.7		2745.7	$(13)^-$	2045.0	$(12)^-$	
708.5	11 *1*	2045.0	$(12)^-$	1336.5	$(10)^-$	DCO=1.03 *18*
712.5	<3	1893.3	$(11)^-$	1180.9	$(9)^-$	
723.1	8 *1*	2419.6	$(13)^-$	1696.4	$(11)^-$	
727.8	3 *1*	2205.5	$(12)^-$	1477.8	$(10)^-$	
728.3		1226.3+x	$(12)^-$	498.28+x	$(10)^-$	
735.7		4149.7	$(17)^-$	3413.6	$(15)^-$	
739.0	5.6[@] *14*	4345.0	(18^+)	3606.0	(17^+)	R_{ADO}=0.77 *25*.
739.2	35 *3*	2231.6	(14^+)	1492.6	(12^+)	DCO=1.01 *10* R_{ADO}=1.33 *21*.
745.2	14 *2*	2476.3	$(13)^-$	1731.1	$(11)^-$	DCO=1.07 *14*
746.5		2342.2	$(12)^-$	1595.6	$(10)^-$	
747.1		3052.4	$(14)^-$	2305.1	$(12)^-$	
760.0	5 *1*	2574.1	$(13)^-$	1814.2	$(11)^-$	DCO=1.0 *3*
762.5		2099.2	$(12)^-$	1336.5	$(10)^-$	
771.0	8 *1*	2857.1	(15^+)	2086.1	(13^+)	DCO=0.98 *16* R_{ADO}=1.4 *4*.
785.0		6455.7	(22^+)	5670.9	(21^+)	
791.8	3.3[@] *9*	5391.2	(20^+)	4598.9	(19^+)	R_{ADO}=0.72 *21*.
806.5		4578.8	$(18)^-$	3772.3	$(16)^-$	

Continued on next page (footnotes at end of table)

(HI,xnγ) 1993Ko25,2006Wa19,2007Wa09 (continued)

γ(^{126}Cs) (continued)

E_γ †	I_γ #	E_i(level)	J_i^π	E_f	J_f^π	Comments
807.0	9 *2*	2695.0	(15^+)	1888.2	(13^+)	DCO=0.95 *13* R_{ADO}=1.3 *3*.
808.0	4 *1*	4149.7	$(17)^-$	3341.8	$(15)^-$	
811.0		1650.8+x	$(13)^-$	839.4+x	$(11)^-$	
832.2		4981.9	$(19)^-$	4149.7	$(17)^-$	
835.0	6 *1*	2934.2	$(14)^-$	2099.2	$(12)^-$	
838.0		3772.3	$(16)^-$	2934.2	$(14)^-$	
839.4		3413.6	$(15)^-$	2574.1	$(13)^-$	
846.2	7 *2*	2891.0	$(14)^-$	2045.0	$(12)^-$	
847.8	2.4@ *8*	2086.1	(13^+)	1237.9	(11^+)	
852.5	<2	2745.7	$(13)^-$	1893.3	$(11)^-$	
861.0&		3203.2	$(14)^-$	2342.2	$(12)^-$	
861.0&	4 *1*	3280.6	$(15)^-$	2419.6	$(13)^-$	
864.5		5443.3	$(20)^-$	4578.8	$(18)^-$	
865.4	9 *1*	3341.8	$(15)^-$	2476.3	$(13)^-$	DCO=1.11 *24*
876.4		3081.7	$(14)^-$	2205.5	$(12)^-$	
879.0	22 *2*	3110.3	(16^+)	2231.6	(14^+)	DCO=1.06 *11* R_{ADO}=1.43 *25*.
881.0		2107.3+x	$(14)^-$	1226.3+x	$(12)^-$	
881.5	3 *1*	3772.3	$(16)^-$	2891.0	$(14)^-$	
882.5		4085.7	$(16)^-$	3203.2	$(14)^-$	
889.4		2934.2	$(14)^-$	2045.0	$(12)^-$	
901.5	<2	3331.9	(16^+)	2430.5	(14^+)	R_{ADO}=1.4 *5*.
905.5		3651.2	$(15)^-$	2745.7	$(13)^-$	
910.8	7 *1*	3606.0	(17^+)	2695.0	(15^+)	DCO=0.99 *18* R_{ADO}=1.4 *3*.
915.5		5897.4	$(21)^-$	4981.9	$(19)^-$	
917.0		4568.2	$(17)^-$	3651.2	$(15)^-$	
936.1	8 *1*	3793.3	(17^+)	2857.1	(15^+)	DCO=0.97 *17* R_{ADO}=1.4 *3*.
937.8	1.2@ *4*	2430.5	(14^+)	1492.6	(12^+)	
941.5		3515.5		2574.1	$(13)^-$	
943.0		2593.8+x	$(15)^-$	1650.8+x	$(13)^-$	
946.7		6389.8	$(22)^-$	5443.3	$(20)^-$	
955.8		5524.0	$(19)^-$	4568.2	$(17)^-$	
960.7	14 *2*	4071.0	(18^+)	3110.3	(16^+)	DCO=0.99 *14* R_{ADO}=1.4 *3*.
967.7		3858.7	$(16)^-$	2891.0	$(14)^-$	
968.1		4826.8	$(18)^-$	3858.7	$(16)^-$	
968.9	3 *1*	2857.1	(15^+)	1888.2	(13^+)	R_{ADO}=1.3 *4*.
981.7		4262.3	$(17)^-$	3280.6	$(15)^-$	
993.0	5 *1*	4598.9	(19^+)	3606.0	(17^+)	DCO=0.94 *21* R_{ADO}=1.5 *5*.
998.0		3105.3+x	$(16)^-$	2107.3+x	$(14)^-$	
1000.3		4082.0	$(16)^-$	3081.7	$(14)^-$	
1004.8		6902.2	$(23)^-$	5897.4	$(21)^-$	
1007.6	6 *1*	4800.9	(19^+)	3793.3	(17^+)	R_{ADO}=1.5 *5*.
1013.3	1.4@ *5*	4345.0	(18^+)	3331.9	(16^+)	
1015.0		5097.0	$(18)^-$	4082.0	$(16)^-$	
1018.0		5844.8	$(20)^-$	4826.8	$(18)^-$	
1030.4		7420.2	$(24)^-$	6389.8	$(22)^-$	
1032.3		5294.7	$(19)^-$	4262.3	$(17)^-$	
1037.0		3630.8+x	$(17)^-$	2593.8+x	$(15)^-$	
1045.5	7 *2*	5116.5	(20^+)	4071.0	(18^+)	R_{ADO}=1.6 *4*.

Continued on next page (footnotes at end of table)

(HI,xnγ) 1993Ko25,2006Wa19,2007Wa09 (continued)

γ(^{126}Cs) (continued)

E_γ[†]	I_γ[#]	E_i(level)	J_i^π	E_f	J_f^π	Comments
1046.5	0.6[@] *2*	5391.2	(20$^+$)	4345.0	(18$^+$)	
1064.2	0.5[@] *2*	6455.7	(22$^+$)	5391.2	(20$^+$)	
1066.0	<3	5866.9	(21$^+$)	4800.9	(19$^+$)	R_{ADO}=1.5 *5*.
1072.2	4 *2*	5670.9	(21$^+$)	4598.9	(19$^+$)	R_{ADO}=1.3 *4*.
1100.0	1.2[@] *4*	3331.9	(16$^+$)	2231.6	(14$^+$)	
1106.8	1.5[@] *4*	6973.7	(23$^+$)	5866.9	(21$^+$)	
1135.2	4 *2*	6251.7	(22$^+$)	5116.5	(20$^+$)	
1148.0	0.9[@] *3*	7967.2	(25$^+$)	6819.2	(23$^+$)	
1148.3	<3	6819.2	(23$^+$)	5670.9	(21$^+$)	
1198.5	<3	7450.2	(24$^+$)	6251.7	(22$^+$)	
1237[‡]		8687.2		7450.2	(24$^+$)	

[†] From 2006Wa19 and 2007Wa09, unless otherwise noted.
[‡] From 1993Ko25.
[#] From 2003Li30, unless otherwise noted.
[@] From 2006Wa19, normalized to I(140.8γ)=88 by evaluators.
[&] Multiply placed.

(HI,xnγ) 1993Ko25,2006Wa19,2007Wa09

Level Scheme

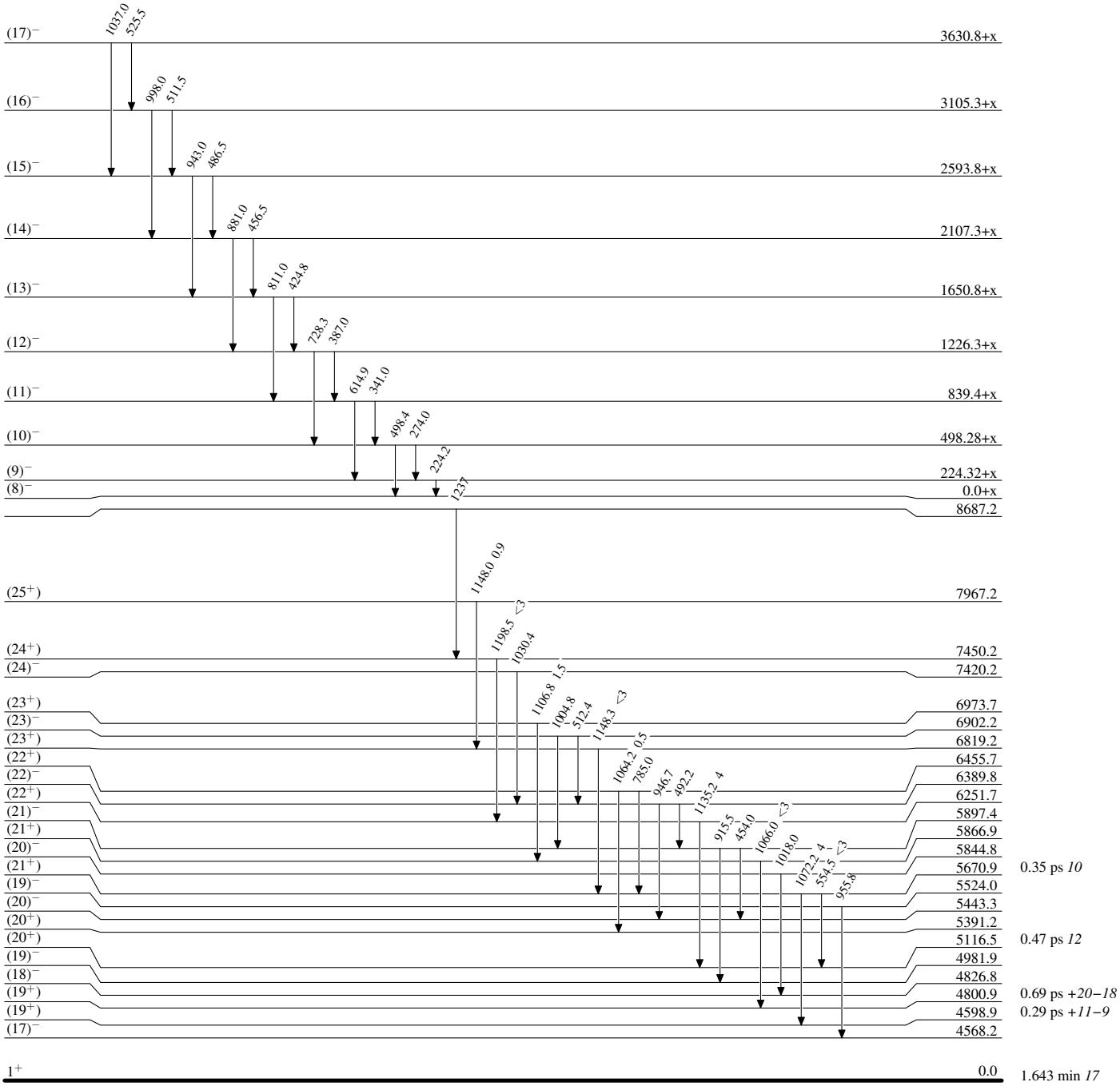
Intensities: Relative I_γ

Legend

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

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

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



$^{126}_{55}Cs_{71}$

(HI,xnγ) 1993Ko25,2006Wa19,2007Wa09

Level Scheme (continued)

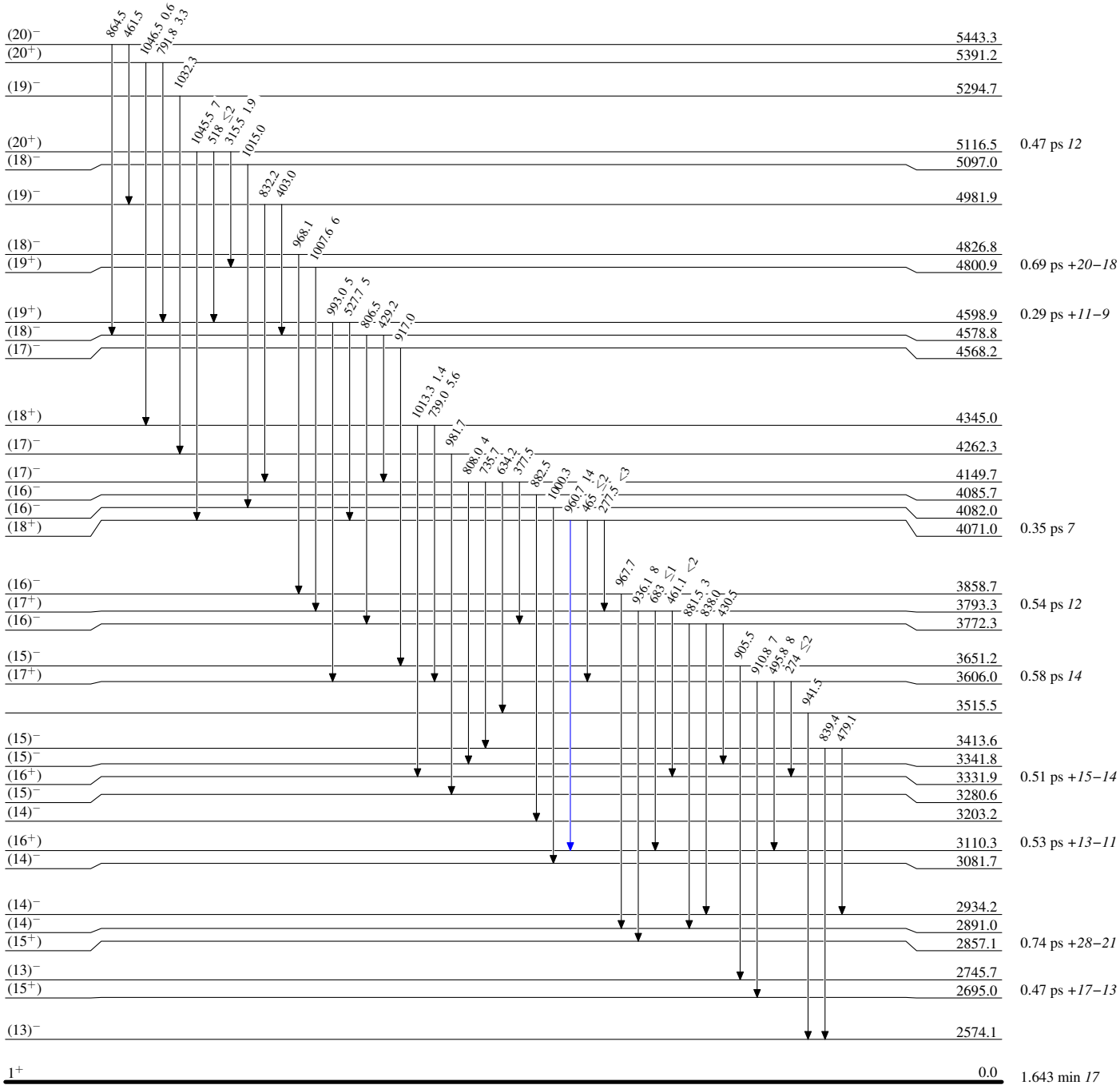
Intensities: Relative I_γ

Legend

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

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

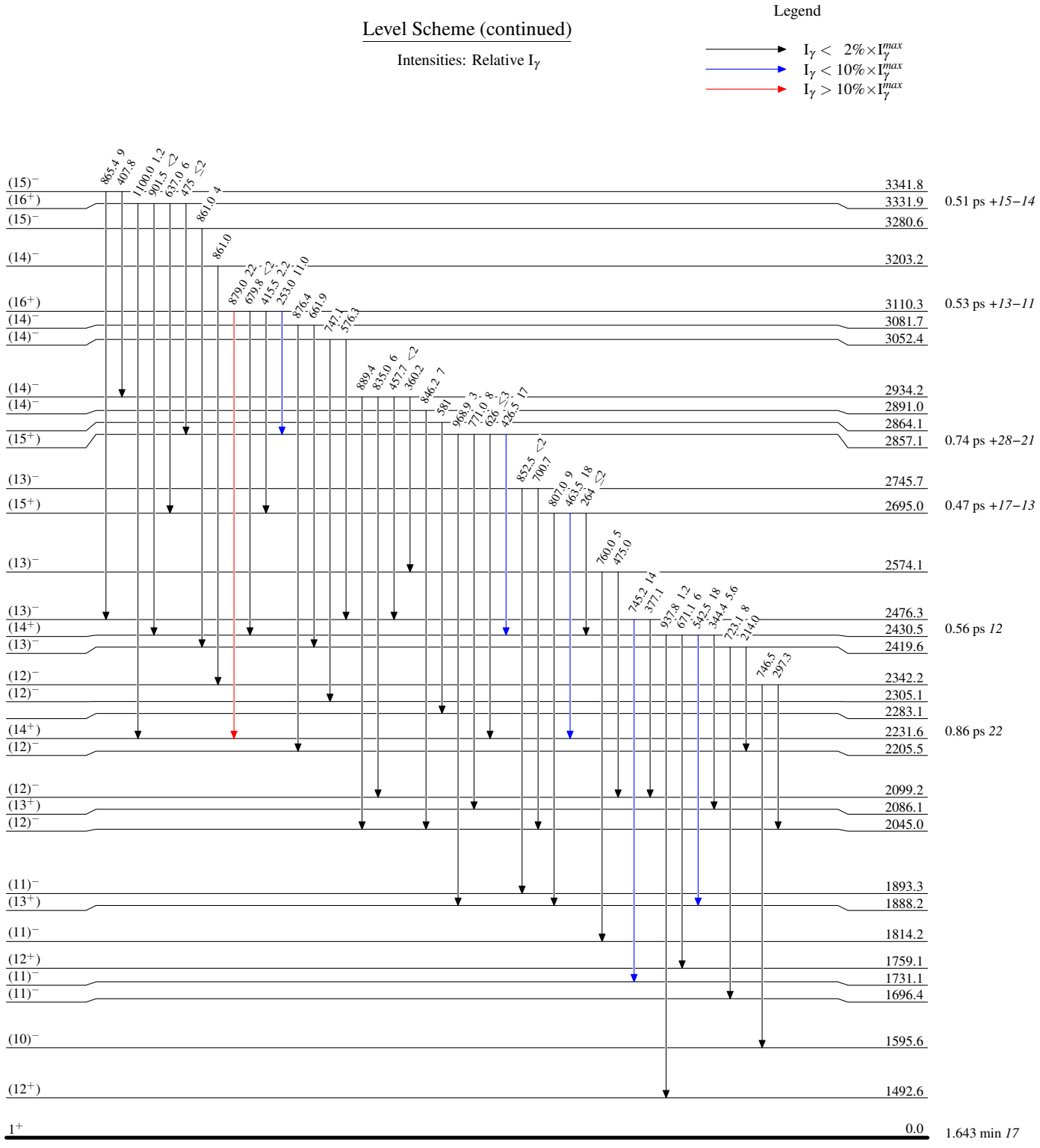
$I_\gamma > 10\% \times I_\gamma^{max}$



(HI,xnγ) 1993Ko25,2006Wa19,2007Wa09

Level Scheme (continued)

Intensities: Relative I_γ



$^{126}_{55}Cs_{71}$

(HI,xnγ) 1993Ko25,2006Wa19,2007Wa09

Level Scheme (continued)

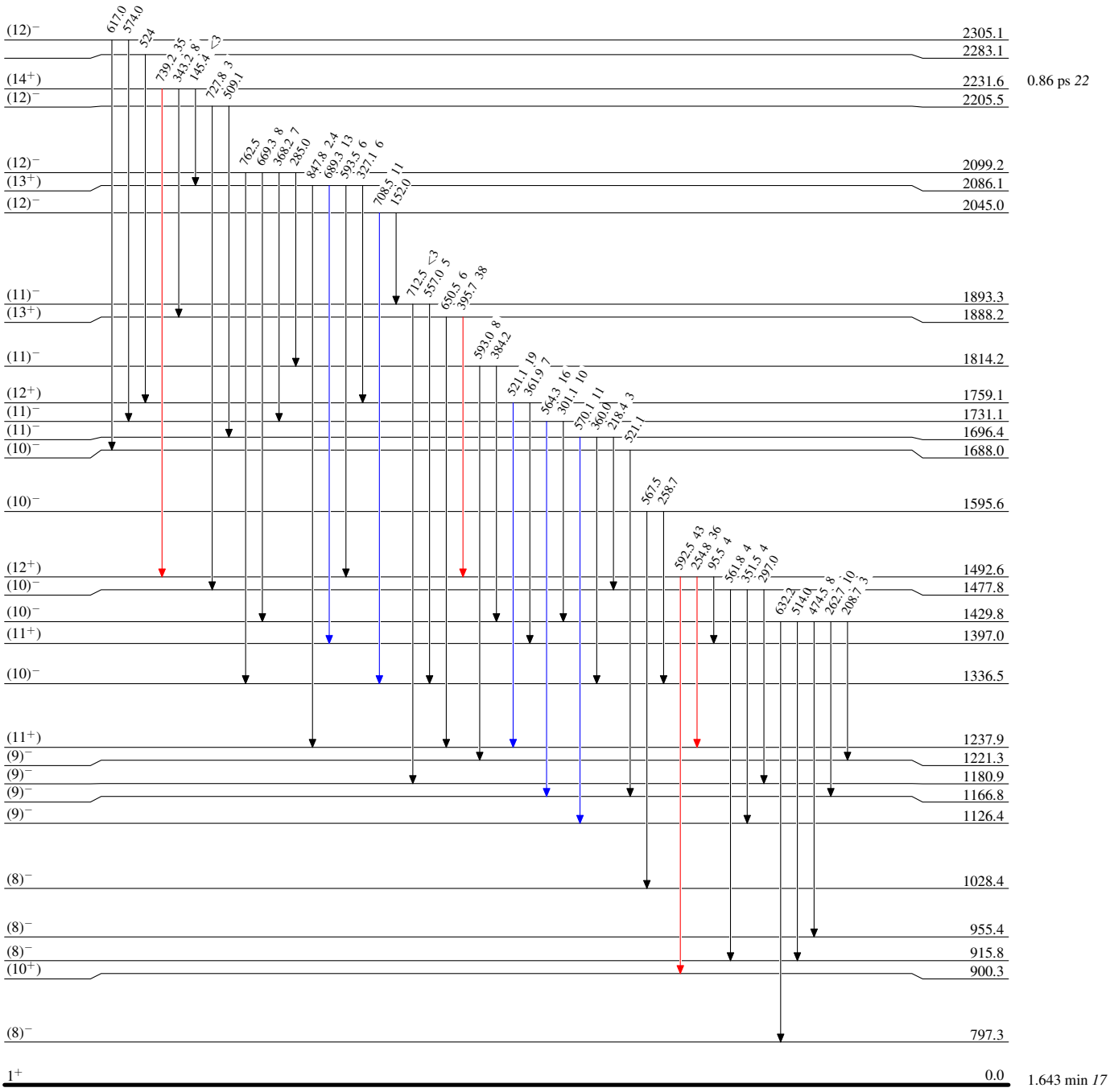
Intensities: Relative I_γ

Legend

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

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

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



$^{126}_{55}Cs_{71}$

(HI,xnγ) 1993Ko25,2006Wa19,2007Wa09

Level Scheme (continued)

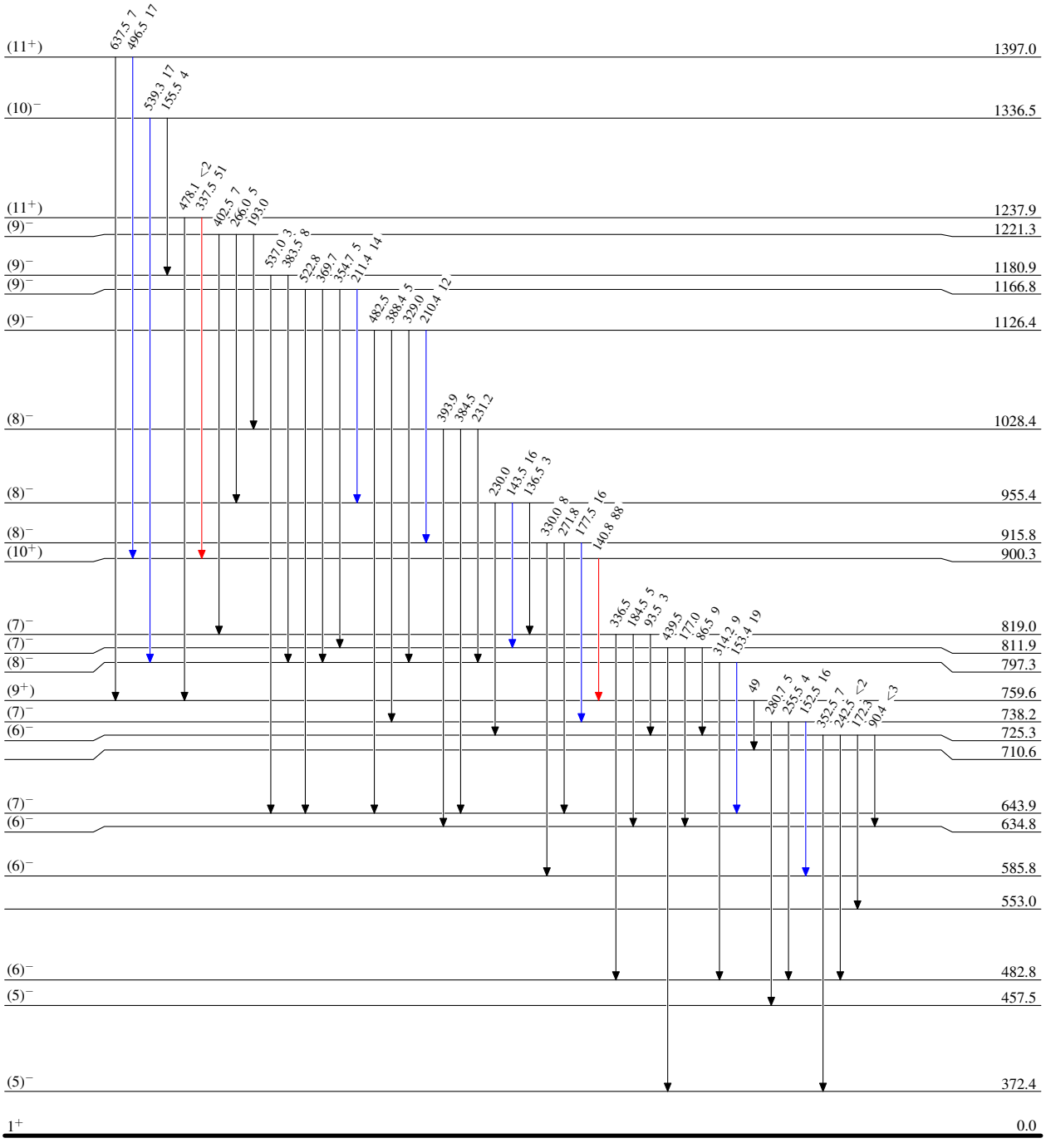
Intensities: Relative I_γ

Legend

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

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

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



$^{126}_{55}Cs_{71}$

(HI,xnγ) 1993Ko25,2006Wa19,2007Wa09

Level Scheme (continued)

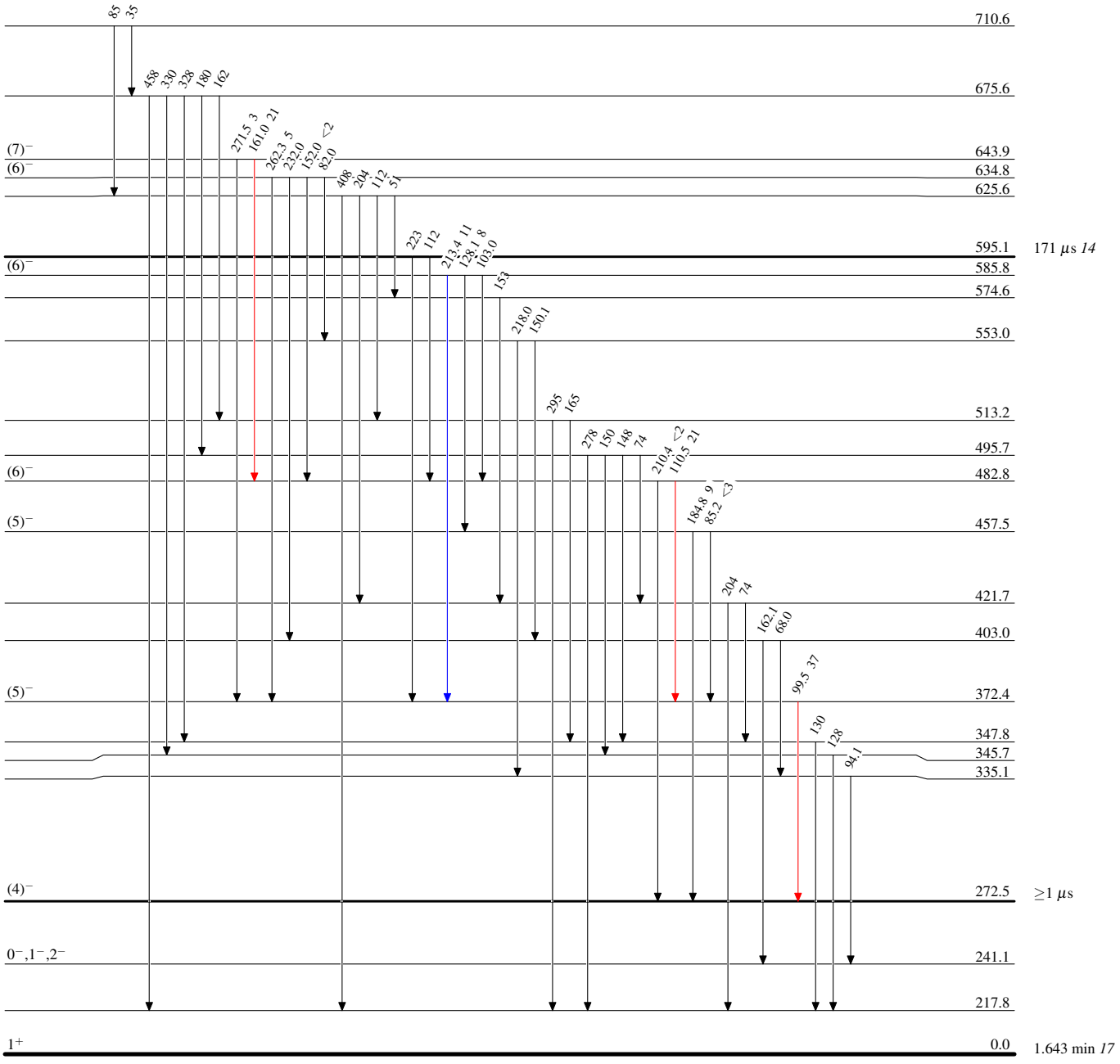
Intensities: Relative I_γ

Legend

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

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

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

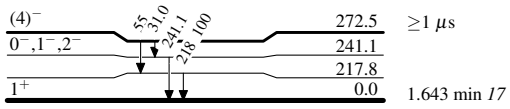


$^{126}_{55}Cs_{71}$

(HI,xnγ) 1993Ko25,2006Wa19,2007Wa09

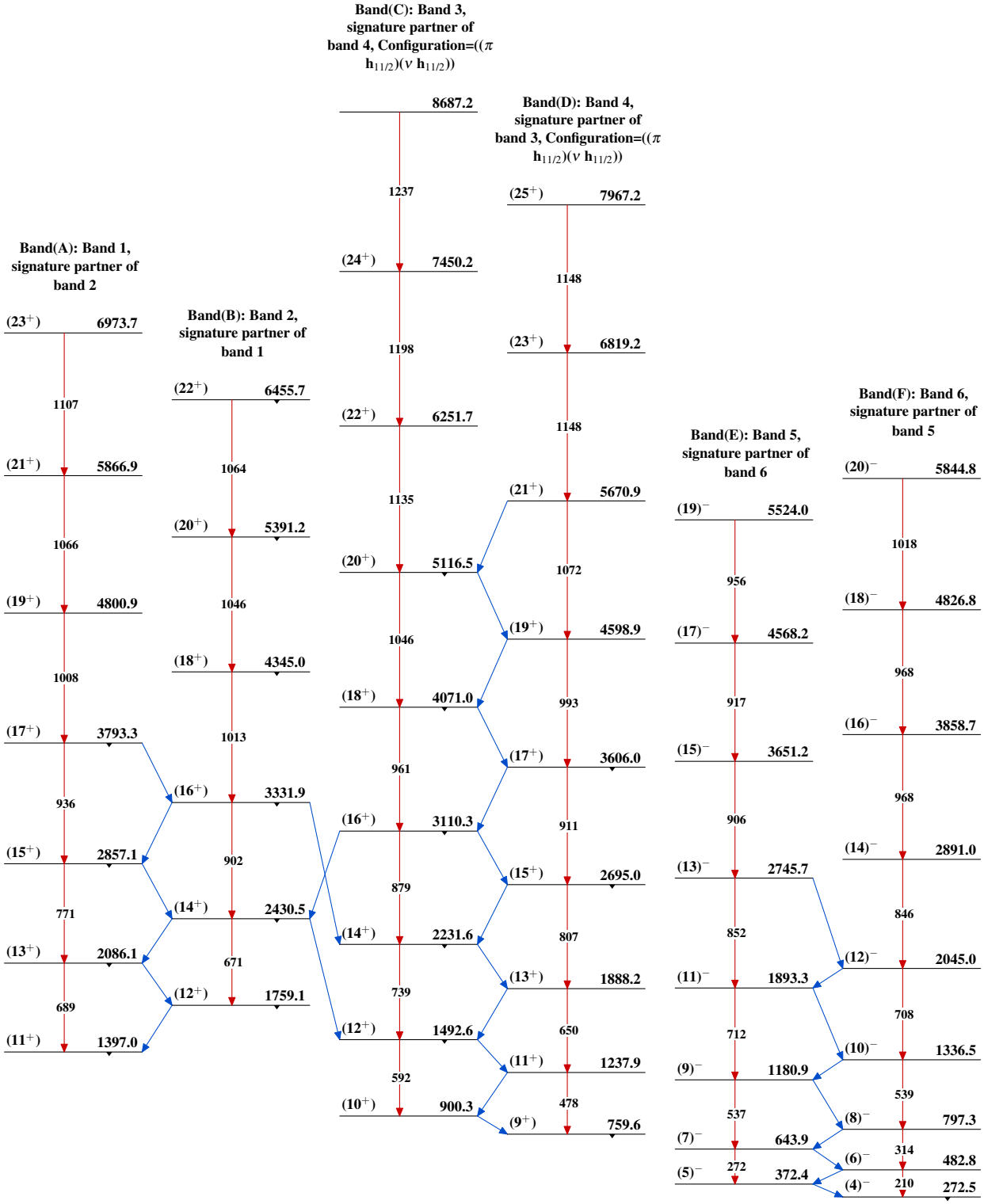
Level Scheme (continued)

Intensities: Relative I_γ



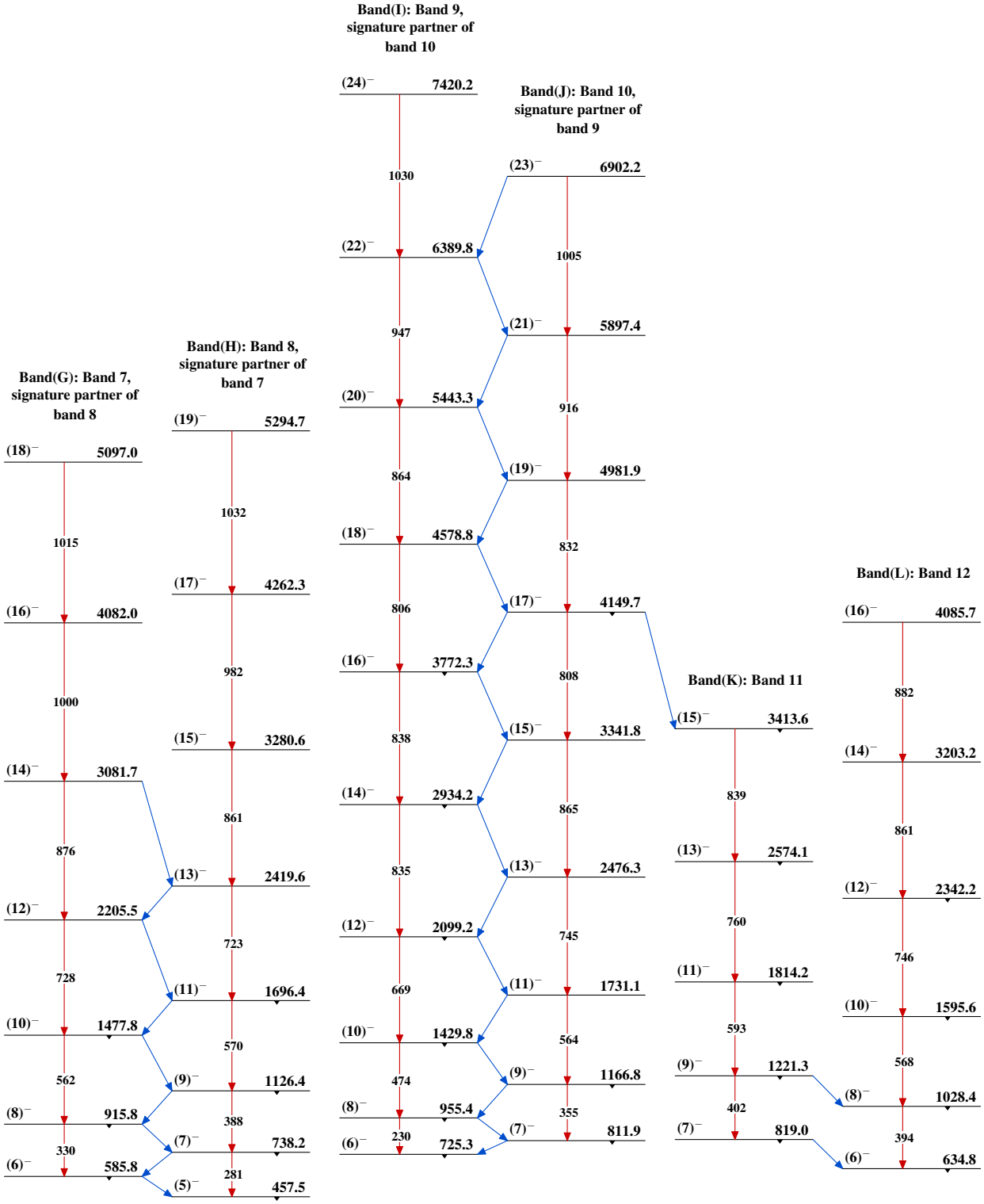
$^{126}_{55}Cs_{71}$

(HI,xnγ) 1993Ko25,2006Wa19,2007Wa09

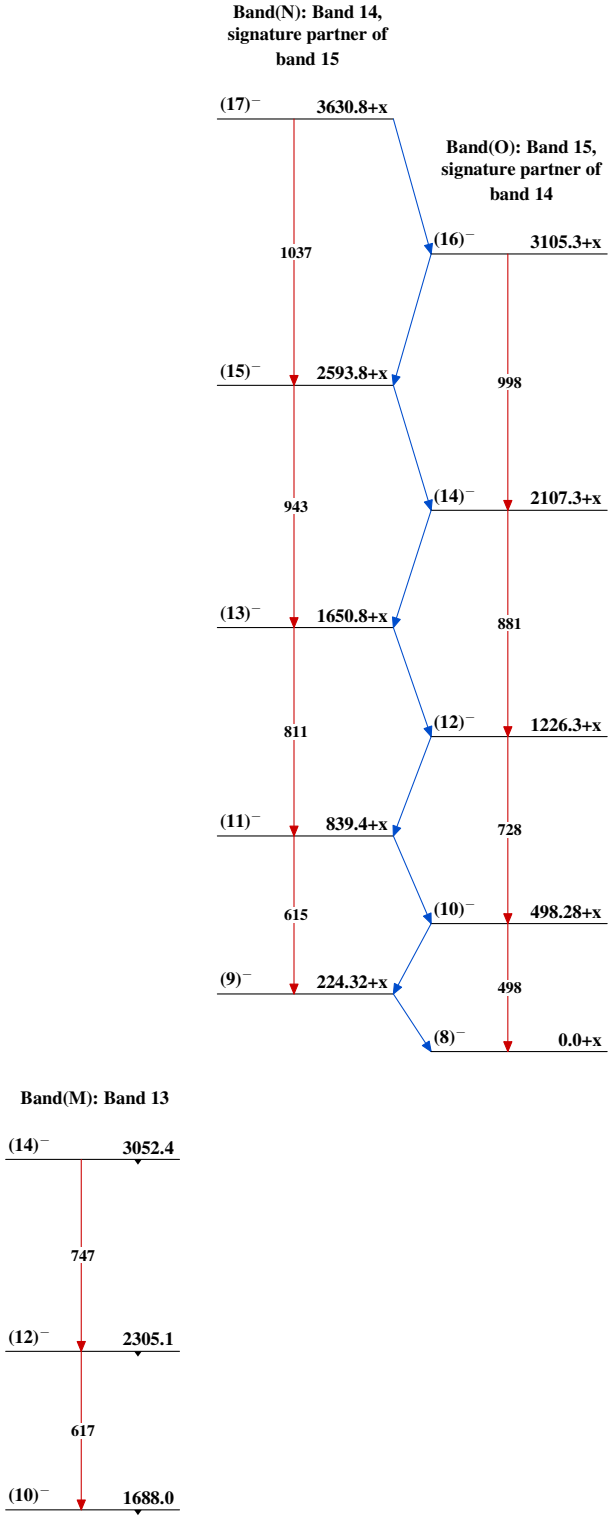


$^{126}_{55}Cs_{71}$

(HI,xnγ) 1993Ko25,2006Wa19,2007Wa09 (continued)



(HI,xnγ) 1993Ko25,2006Wa19,2007Wa09 (continued)



$^{126}_{55}Cs_{71}$