^{114}Cd(^{11}B,4nγ) 1992Li01,1991Li18,1994Wa08

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	S. Ohya	NDS 111, 1619 (2010)	20-Jan-2009

1992Li01: ^{114}Cd(^{11}B,4nγ) E=51 MeV, 6 escape-suppressed Ge detectors with 14 BGO; measured γ, $\gamma\gamma$, DCO, $\gamma(\theta)$, deduced multipolarity and J^π.

1991Li18: ^{114}Cd(^{11}B,4nγ) E=51 MeV, 6 escape-suppressed Ge detectors with 14 BGO's; measured γ, $\gamma\gamma$, DCO, $\gamma(\theta)$, deduced multipolarity and J^π.

1994Wa08: ^{114}Cd(^{11}B,4nγ) E=51 MeV, a BGO escape-suppressed Ge detector; measured doppler-shift attenuation; deduced level half-lives.

^{121}I Levels

E(level)	J^π[b]	$T_{1/2}$[c]	E(level)	J^π[b]
0.0[†]	5/2$^+$		3023.7[&] *6*	(19/2$^-$)
132.79[†] *19*	7/2$^+$		3085.8[‡] *5*	(23/2$^+$)
433.59[‡] *24*	(9/2)$^+$		3105.4[†] *7*	(23/2$^+$)
445.52[#] *23*	(7/2)$^+$		3158.6 *15*	
529.21[†] *21*	(9/2)$^+$		3248.3 *7*	
649.87 *19*	(9/2)$^+$		3271.7 *14*	
748.5[‡] *4*	(11/2)$^+$		3273.6[@] *6*	(27/2$^-$)
801.5[†] *4*	(11/2$^+$)		3281.3 *12*	
811.3[@] *3*	(11/2)$^-$	189 ps *7*	3353.6 *15*	
1031.1[#] *4*	(11/2)$^+$		3439.3 *12*	
1077.2[‡] *4*	(13/2)$^+$		3471.9 *12*	
1134.0[†] *4*	(13/2)$^+$		3487.4[&] *9*	(21/2$^-$)
1239.4[@] *4*	(15/2)$^-$		3496.9[†] *12*	(25/2$^+$)
1326.1[&] *4*	(11/2$^-$)	58 ps *12*	3510.7[a] *7*	(23/2$^+$)
1435.8[‡] *4*	(15/2)$^+$		3517.6[#] *7*	(23/2$^+$)
1575.0[†] *5*	(15/2$^+$)		3534.0[‡] *5*	(25/2$^+$)
1721.9[&] *5*	(13/2$^-$)		3583.4 *6*	(25/2$^+$)
1746.3[#] *5*	(15/2$^+$)		3604.3 *12*	
1780.5[@] *4*	(19/2)$^-$		3638.9 *12*	
1814.7[‡] *4*	(17/2)$^+$		3676.9[†] *7*	
1846.8 *8*			3684.3 *12*	
1864.2[†] *5*	(17/2)$^+$		3704.1[a] *7*	(25/2$^+$)
2132.3[&] *5*	(15/2$^-$)		3763.1 *7*	(27/2$^+$)
2201.4 *11*			3929.3 *15*	
2219.2[‡] *4*	(19/2)$^+$		3966.6[‡] *5*	(27/2$^+$)
2285.9 *8*			4005.7[a] *8*	(27/2$^+$)
2378.2 *11*			4096.6 *18*	
2426.3[@] *5*	(23/2)$^-$		4098.9 *16*	
2440.8[†] *6*	(19/2$^+$)		4164.6[@] *6*	(31/2)$^-$
2570.1[&] *6*	(17/2$^-$)		4233.9[†] *16*	(29/2$^+$)
2621.3[#] *6*	(19/2$^+$)		4321.1[a] *8*	(29/2$^+$)
2642.7[‡] *4*	(21/2$^+$)		4377?[‡] *1*	(29/2$^+$)
2684.6 *11*			4381.6 *12*	
2728.9[†] *6*	(21/2$^+$)		4436.6 *12*	
2776.7 *9*			4534?[†] *1*	
2858.5 *11*			4635.9 *16*	

Continued on next page (footnotes at end of table)

^{114}Cd(^{11}B,4nγ) 1992Li01,1991Li18,1994Wa08 (continued)

^{121}I Levels (continued)

E(level)	J$^{\pi}$[b]	T$_{1/2}$[c]	Comments
4662.9 *19*			
4676.1[a] *13*	(31/2$^+$)		
4922? *1*			
5001.1[a] *17*	(33/2$^+$)		
5041.0[@] *7*	(35/2)$^-$		
5255.6 *16*			
5338.1[a] *19*	(35/2$^+$)		
5432.5 *8*	(39/2$^-$)	263 ps *22*	
5655.1[a] *22*	(37/2$^+$)		
6244.6 *8*	(41/2$^-$)		
6537.1 *9*	(43/2$^-$)		
7206.1 *12*	(43/2$^-$)		
7446.6 *12*			
8134.6 *16*			
x			Additional information 1.
x+495.0 *10*			
x+1124.0 *15*			
x+1868.0 *18*			
x+2705.0 *20*			

† Band(A): 2d$_{5/2}$ (g.s.).
‡ Band(B): 9/2$^+$[404].
# Band(C): 1g$_{7/2}$.
@ Band(D): 1h$_{11/2}$ or 1/2$^-$[550].
& Band(E): 11/2$^-$[505].
[a] Band(F): 3quasi-particle state on 23/2$^+$. probable configuration=((π 1h$_{11/2}$)(ν 1h$_{11/2}$)(ν 1g$_{7/2}$)).
[b] From Adopted Levels.
[c] From recoil-distance method (1994Wa08).

^{114}Cd(^{11}B,4nγ) 1992Li01,1991Li18,1994Wa08 (continued)

$\gamma(^{121}I)$

E_γ[†]	I_γ[†]	E_i(level)	J_i^π	E_f	J_f^π	Mult.[@]	δ[b]	α[c]	$I_{(\gamma+ce)}$	Comments
83[#] *1*		529.21	$(9/2)^+$	445.52	$(7/2)^+$	E2[&]		3.40 *16*		α(K)=2.12 *9*; α(L)=1.02 *6*; α(M)=0.217 *13*; α(N+..)=0.045 *3* α(N)=0.0416 *25*; α(O)=0.00380 *22*
121 *1*	<1	649.87	$(9/2)^+$	529.21	$(9/2)^+$					
132.6 *3*	86[‡] *9*	132.79	$7/2^+$	0.0	$5/2^+$	M1+E2[&]	−0.06 *2*	0.339 *6*	116 *20*	ce(K)/(γ+ce)=0.218 *3*; ce(L)/(γ+ce)=0.0285 *5*; ce(M)/(γ+ce)=0.00575 *10*; ce(N+)/(γ+ce)=0.001299 *23* ce(N)/(γ+ce)=0.001163 *21*; ce(O)/(γ+ce)=0.0001359 *23* Mult.: DCO=0.29 *1*, A_2=−0.33 *5*, A_4=−0.11 *7*.
159[#] *1*		2378.2		2219.2	$(19/2)^+$					
161.4 *3*	76[‡] *8*	811.3	$(11/2)^-$	649.87	$(9/2)^+$	D			80 *8*	Mult.: DCO=0.33 *1*, A_2=−0.36 *5*, A_4=−0.06 *7*.
179.7 *3*	7 *1*	3763.1	$(27/2^+)$	3583.4	$(25/2^+)$	D+Q	−0.27 *14*			Mult.: A_2=−0.45 *15*, A_4=−0.17 *19*.
186 *1*	3 *1*	3704.1	$(25/2^+)$	3517.6	$(23/2^+)$	D(+Q)				Mult.: DCO=0.60 *6*.
193.5 *3*	5 *1*	3704.1	$(25/2^+)$	3510.7	$(23/2^+)$	D(+Q)				Mult.: DCO=0.43 *4*, A_2=−0.7 *3*, A_4=−0.1 *4*.
204.3 *3*	5 *1*	649.87	$(9/2)^+$	445.52	$(7/2)^+$	M1(+E2)[a]		0.124 *21*		α(K)=0.102 *14*; α(L)=0.017 *6*; α(M)=0.0035 *13*; α(N+..)=0.0008 *3* α(N)=0.00070 *24*; α(O)=7.5×10^{-5} *21* Mult.: DCO=0.38 *4*.
241 *1*	<2	7446.6		7206.1	$(43/2^-)$					
273[#] *1*		801.5	$(11/2^+)$	529.21	$(9/2)^+$					
282.2 *3*	26 *3*	811.3	$(11/2)^-$	529.21	$(9/2)^+$	D				Mult.: DCO=0.41 *1*, A_2=−0.23 *6*, A_4=−0.09 *7*.
286 *1*	<1	1721.9	$(13/2^-)$	1435.8	$(15/2)^+$					
292.4 *3*	6 *1*	6537.1	$(43/2^-)$	6244.6	$(41/2^-)$	D+Q	−0.06 *4*			Mult.: DCO=0.52 *6*, A_2=−0.32 *18*, A_4=+0.08 *22*.
300.8 *3*	78[‡] *8*	433.59	$(9/2)^+$	132.79	$7/2^+$	M1+E2[&]	+0.11 *3*	0.0371	81 *8*	ce(K)/(γ+ce)=0.0309 *5*; ce(L)/(γ+ce)=0.00394 *6*; ce(M)/(γ+ce)=0.000793 *12*; ce(N+)/(γ+ce)=0.000179 *3* ce(N)/(γ+ce)=0.0001606 *24*; ce(O)/(γ+ce)=1.88×10^{-5} *3* Mult.: DCO=0.52 *2*; A_2=−0.06 *6*, A_4=−0.02 *7* for 300.8γ + 301.6γ.
301.6[e] *3*	3[e] *1*	4005.7	$(27/2^+)$	3704.1	$(25/2^+)$	D(+Q)				Mult.: DCO=0.48 *3*; A_2=−0.06 *6*, A_4=−0.02 *7* for 301.6γ + 300.8γ.
314.7 *3*	75[‡] *10*	748.5	$(11/2)^+$	433.59	$(9/2)^+$	(D+Q)	+0.10 *3*		77 *8*	Mult.: DCO=0.72 *3*; A_2=+0.09 *6*, A_4=+0.01 *7* for 314.7γ + 315.4γ.
315.4 *3*	2.5 *3*	4321.1	$(29/2^+)$	4005.7	$(27/2^+)$	D(+Q)				Mult.: A_2=+0.09 *6*, A_4=+0.01 *7* for 314.7γ + 315.4γ.
317[e] *1*	<1[e]	2132.3	$(15/2^-)$	1814.7	$(17/2)^+$					
317[e] *1*	<2[e]	5655.1	$(37/2^+)$	5338.1	$(35/2^+)$	D(+Q)				Mult.: DCO=0.44 *11*, 0.61 *11* in ^{96}Zr(^{30}Si,4nγ).
325[e] *1*	<3[e]	3929.3		3604.3						
325 *1*	<1	5001.1	$(33/2^+)$	4676.1	$(31/2^+)$					

$^{121}_{53}I_{68}$-3

^{114}Cd(^{11}B,4nγ) 1992Li01,1991Li18,1994Wa08 (continued)

$\gamma(^{121}I)$ (continued)

E_γ [†]	I_γ [†]	E_i(level)	J_i^π	E_f	J_f^π	Mult. [@]	δ [b]	α [c]	$I_{(\gamma+ce)}$	Comments
328.4 *3*	47 [‡] *5*	1077.2	$(13/2)^+$	748.5	$(11/2)^+$	D+Q	+0.21 *3*		48 *5*	Mult.: DCO=0.47 *2*, A_2=+0.09 *6*,A_4=+0.01 *7*.
332 *1*	3 *1*	1134.0	$(13/2)^+$	801.5	$(11/2^+)$					
337 *1*	<3	5338.1	$(35/2^+)$	5001.1	$(33/2^+)$	D(+Q)				Mult.: DCO=0.52 *12*, 0.63 *11* in ^{96}Zr(^{30}Si,4nγ).
355 *1*	<3	4676.1	$(31/2^+)$	4321.1	$(29/2^+)$	D(+Q)				E_γ: 335 given in table 2 (1992Li01) is a misprint. Eγ=355 in level scheme. Mult.: DCO=0.38 *20* in ^{96}Zr(^{30}Si,4nγ).
358.4 *3*	42 *5*	1435.8	$(15/2)^+$	1077.2	$(13/2)^+$	D+Q	+0.15 *1*			Mult.: DCO=0.49 *2*, A_2=+0.01 *6*, A_4=+0.01 *7*.
378.5 *3*	32 *3*	1814.7	$(17/2)^+$	1435.8	$(15/2)^+$	M1+E2 [a]	+0.26 *5*	0.0205		α(K)=0.0177 *3*; α(L)=0.00226 *4*; α(M)=0.000454 *7*; α(N+..)=0.0001027 *15* α(N)=9.19×10^{-5} *14*; α(O)=1.076×10^{-5} *16* Mult.: DCO=0.53 *2*, A_2=+0.17 *6*, A_4=+0.03 *7*.
391.5 *3*	19 *2*	5432.5	$(39/2^-)$	5041.0	$(35/2)^-$	E2		0.01747		α(K)=0.01469 *21*; α(L)=0.00223 *4*; α(M)=0.000454 *7*; α(N+..)=0.0001005 *15* α(N)=9.06×10^{-5} *13*; α(O)=9.97×10^{-6} *15* Mult.: DCO=0.80 *3*, A_2=+0.36 *7*, A_4=+0.01 *80*; RUL consistent with E2.
395.9 *3*	7 *1*	1721.9	$(13/2^-)$	1326.1	$(11/2^-)$	D(+Q)				Mult.: DCO=0.48 *3*; A_2=−0.33 *5*, A_4=+0.06 *7* for 395.9γ + 3396.5γ.
396.5 *3*	38 *4*	529.21	$(9/2)^+$	132.79	$7/2^+$	M1(+E2) [a]	−0.23 *18*	0.0182		α(K)=0.0157 *3*; α(L)=0.00200 *4*; α(M)=0.000402 *7*; α(N+..)=9.09×10^{-5} *14* α(N)=8.13×10^{-5} *13*; α(O)=9.54×10^{-6} *14* Mult.: DCO=0.27 *2*; A_2=−0.33 *5*, A_4=+0.06 *7* for 395.9γ + 396.5γ.
404.4 *3*	25 *2*	2219.2	$(19/2)^+$	1814.7	$(17/2)^+$	M1+E2 [a]	+0.26 *7*	0.01728		α(K)=0.01491 *22*; α(L)=0.00190 *3*; α(M)=0.000382 *6*; α(N+..)=8.64×10^{-5} *13* α(N)=7.73×10^{-5} *11*; α(O)=9.07×10^{-6} *13* Mult.: DCO=0.70 *3*, A_2=+0.15 *6*, A_4=+0.08 *7*.
410.6 *3*	6 *1*	2132.3	$(15/2^-)$	1721.9	$(13/2^-)$	D(+Q)				Mult.: DCO=0.50 *3*.
411 [f] *1*	<3	4377?	$(29/2^+)$	3966.6	$(27/2^+)$					
423.5 *3*	8 *1*	2642.7	$(21/2^+)$	2219.2	$(19/2)^+$	D+Q	+0.26 *8*			Mult.: DCO=0.62 *3*, A_2=+0.15 *8*, A_4=+0.09 *10*.
428.1 *3*	99 [‡] *5*	1239.4	$(15/2)^-$	811.3	$(11/2)^-$	E2		0.01338	100	ce(K)/(γ+ce)=0.01114 *16*; ce(L)/(γ+ce)=0.001651 *24*; ce(M)/(γ+ce)=0.000335 *5*; ce(N+)/(γ+ce)=7.44×10^{-5} *11* ce(N)/(γ+ce)=6.70×10^{-5} *10*; ce(O)/(γ+ce)=7.43×10^{-6} *11* Mult.: DCO=0.80 *1*, A_2=+0.44 *7*, A_4=−0.11 *10*.
433 *1*	<3	3966.6	$(27/2^+)$	3534.0	$(25/2^+)$	(D+Q)				Mult.: A_2=+0.15 *6*, A_4=+0.06 *7* for 433γ + 433.6γ.
433.6 *3*	27 *3*	433.59	$(9/2)^+$	0.0	$5/2^+$	E2 [&]		0.01289		α(K)=0.01088 *16*; α(L)=0.001607 *23*; α(M)=0.000326 *5*; α(N+..)=7.24×10^{-5} *11* α(N)=6.52×10^{-5} *10*; α(O)=7.24×10^{-6} *11* Mult.: A_2=+0.15 *6*, A_4=+0.06 *7* for 433γ + 433.6γ.
437.8 *3*	4 *1*	2570.1	$(17/2^-)$	2132.3	$(15/2^-)$	D(+Q)				
439.1 *3*	3 *1*	2285.9		1846.8						

^{114}Cd(^{11}B,4nγ) 1992Li01,1991Li18,1994Wa08 (continued)

$\gamma(^{121}I)$ (continued)

E_γ [†]	I_γ [†]	E_i(level)	J_i^π	E_f	J_f^π	Mult. [@]	δ [b]	α [c]	Comments
442.8 *3*	6 *1*	3085.8	(23/2$^+$)	2642.7	(21/2$^+$)	D(+Q)			Mult.: A_2=+0.04 *10*, A_4=+0.23 *12*.
445.4 *3*	22 *2*	445.52	(7/2)$^+$	0.0	5/2$^+$	M1+E2[&]	−0.18 *10*	0.01359 *21*	α(K)=0.01174 *18*; α(L)=0.001482 *21*; α(M)=0.000298 *5*; α(N+..)=6.74×10^{-5} *10* α(N)=6.03×10^{-5} *9*; α(O)=7.09×10^{-6} *11* Mult.: DCO=0.23 *1*, A_2=−0.58 *5*, A_4=−0.09 *8*.
448.2 *3*	4 *1*	3534.0	(25/2$^+$)	3085.8	(23/2$^+$)				
453.7 *3*	<3	3023.7	(19/2$^-$)	2570.1	(17/2$^-$)				
464 *1*	<2	3487.4	(21/2$^-$)	3023.7	(19/2$^-$)				
474 *1*	<2	3158.6		2684.6					
491 *1*	3 *1*	2776.7		2285.9					
495[e] *1*	<2[e]	x+495.0		x					E_γ: triplet.
495[e] *1*	<2[e]	3271.7		2776.7					E_γ: triplet.
495[e] *1*	<2[e]	3353.6		2858.5					E_γ: triplet.
502[#] *1*		1031.1	(11/2)$^+$	529.21	(9/2)$^+$				
516.9 *3*	22 *2*	649.87	(9/2)$^+$	132.79	7/2$^+$	M1(+E2)[a]		0.0086 *9*	α=0.0086 *9*; α(K)=0.0074 *8*; α(L)=0.00098 *5*; α(M)=0.000197 *8*; α(N+..)=4.44×10^{-5} *22* α(N)=3.98×10^{-5} *19*; α(O)=4.6×10^{-6} *4* Mult.: DCO=0.3 *1*, A_2=−0.58 *5*, A_4=+0.01 *8*.
529.4 *3*	38 *4*	529.21	(9/2)$^+$	0.0	5/2$^+$	E2[&]		0.00731 *11*	α=0.00731 *11*; α(K)=0.00622 *9*; α(L)=0.000874 *13*; α(M)=0.0001769 *25*; α(N+..)=3.95×10^{-5} *6* α(N)=3.55×10^{-5} *5*; α(O)=4.00×10^{-6} *6* Mult.: DCO=0.95 *3*, A_2=+0.35 *7*, A_4=−0.01 *7*.
541.1 *2*	89 *9*	1780.5	(19/2)$^-$	1239.4	(15/2)$^-$	E2[a]		0.00688 *10*	α=0.00688 *10*; α(K)=0.00586 *9*; α(L)=0.000820 *12*; α(M)=0.0001659 *24*; α(N+..)=3.70×10^{-5} *6* α(N)=3.33×10^{-5} *5*; α(O)=3.75×10^{-6} *6* Mult.: DCO=1.01 *3*, A_2=+0.46 *7*, A_4=−0.07 *7*.
564 *1*	<1	4662.9		4098.9					
571.5 *3*	4 *1*	3676.9		3105.4	(23/2$^+$)				
577.8 *3*	11 *5*	1326.1	(11/2$^-$)	748.5	(11/2)$^+$	D			Mult.: A_2=+0.40 *8*, A_4=−0.09 *9*.
585.6 *3*	13 *1*	1031.1	(11/2)$^+$	445.52	(7/2)$^+$	E2[a]		0.00556 *8*	α=0.00556 *8*; α(K)=0.00475 *7*; α(L)=0.000654 *10*; α(M)=0.0001321 *19*; α(N+..)=2.95×10^{-5} *5* α(N)=2.65×10^{-5} *4*; α(O)=3.01×10^{-6} *5* Mult.: DCO=0.85 *4*, A_2=+0.38 *8*, A_4=+0.04 *8*.
604.8 *3*	43 *4*	1134.0	(13/2)$^+$	529.21	(9/2)$^+$	Q			Mult.: DCO=0.85 *2*, A_2=+0.21 *6*, A_4=+0.02 *7*.
608 *1*	3 *1*	1846.8		1239.4	(15/2)$^-$				
612[#] *3*		1746.3	(15/2$^+$)	1134.0	(13/2)$^+$				
627 *1*	<1	4098.9		3471.9					
629 *1*	<1	x+1124.0		x+495.0					
643.7 *3*	29 *3*	1077.2	(13/2)$^+$	433.59	(9/2)$^+$	Q			Mult.: DCO=1.35 *8*; A_2=+0.42 *7*, A_4=−0.03 *7* for 645.7γ + 643.7γ.
644 *1*	<2	1721.9	(13/2$^-$)	1077.2	(13/2)$^+$	D			A_2=+0.42 *7*, A_4=−0.03 *7* for 645.7γ + 643.7γ.

$^{121}_{53}I_{68}$-5

^{114}Cd(^{11}B,4nγ) 1992Li01,1991Li18,1994Wa08 (continued)

$\gamma(^{121}I)$ (continued)

E_γ[†]	I_γ[†]	E_i(level)	J_i^π	E_f	J_f^π	Mult.[@]	α[c]	Comments
645.7 *3*	79 *8*	2426.3	$(23/2)^-$	1780.5	$(19/2)^-$	(E2)	0.00431 *6*	α=0.00431 *6*; α(K)=0.00369 *6*; α(L)=0.000499 *7*; α(M)=0.0001006 *15*; α(N+..)=2.25×10^{-5} *4* α(N)=2.02×10^{-5} *3*; α(O)=2.31×10^{-6} *4* Mult.: DCO=1.01 *2*; A_2=+0.42 *7*, A_4=−0.03 *7* for 645.7γ + 643.7γ.
650.0 *3*	67 *7*	649.87	$(9/2)^+$	0.0	$5/2^+$	E2[a]	0.00424 *6*	α=0.00424 *6*; α(K)=0.00363 *6*; α(L)=0.000490 *7*; α(M)=9.88×10^{-5} *14*; α(N+..)=2.21×10^{-5} *4* α(N)=1.99×10^{-5} *3*; α(O)=2.27×10^{-6} *4* Mult.: DCO=0.88 *2*, A_2=+0.42 *7*, A_4=−0.04 *7*.
664.6 *3*	12 *1*	3105.4	$(23/2^+)$	2440.8	$(19/2^+)$	Q		Mult.: DCO=0.97 *5*, A_2=+0.24 *10*, A_4=−0.08 *11*.
668.6 *3*	28 *3*	801.5	$(11/2^+)$	132.79	$7/2^+$	Q		Mult.: DCO=0.89 *3*, A_2=+0.34 *7*, A_4=−0.04 *8*.
687.4 *3*	14 *2*	1435.8	$(15/2)^+$	748.5	$(11/2)^+$	Q		Mult.: DCO=1.26 *13*, A_2=+0.27 *8*, A_4=−0.19 *9*.
688 *1*	<2	8134.6		7446.6		D		Mult.: DCO=0.50 *12*.
696[#] *1*		2132.3	$(15/2^-)$	1435.8	$(15/2)^+$			
715.2 *3*	14 *2*	1746.3	$(15/2^+)$	1031.1	$(11/2)^+$	Q		Mult.: DCO=1.16 *6*, A_2=+0.21 *8*, A_4=−0.13 *9*.
730.2 *3*	31 *3*	1864.2	$(17/2)^+$	1134.0	$(13/2)^+$	E2	0.00317 *5*	α=0.00317 *5*; α(K)=0.00272 *4*; α(L)=0.000360 *5*; α(M)=7.25×10^{-5} *11*; α(N+..)=1.628×10^{-5} *23* α(N)=1.460×10^{-5} *21*; α(O)=1.677×10^{-6} *24* Mult.: DCO=1.17 *5*, A_2=+0.39 *7*, A_4=+0.02 *7*.
737 *1*	3 *1*	4233.9	$(29/2^+)$	3496.9	$(25/2^+)$	(Q)		Mult.: A_2=+0.35 *8*, A_4=−0.03 *9* for 737γ + 737.5γ.
737.5 *3*	15 *1*	1814.7	$(17/2)^+$	1077.2	$(13/2)^+$	Q		Mult.: DCO=1.26 *6*; A_2=+0.35 *8*, A_4=−0.03 *9* for 737γ + 737.5γ.
743[e] *1*	<2[e]	3471.9		2728.9	$(21/2^+)$			
743 *1*	<1	4096.6		3353.6				
744 *1*	<1	x+1868.0		x+1124.0				
768.1 *3*	11 *1*	3496.9	$(25/2^+)$	2728.9	$(21/2^+)$	Q		Mult.: DCO=1.20 *10*, A_2=+0.44 *12*, A_4=−0.13 *14*.
773.5 *3*	29 *3*	1575.0	$(15/2^+)$	801.5	$(11/2^+)$	Q		Mult.: DCO=1.03 *5*, A_2=+0.36 *7*, A_4=−0.03 *7*.
783.4 *3*	16 *1*	2219.2	$(19/2)^+$	1435.8	$(15/2)^+$	E2[a]	0.00268 *4*	α=0.00268 *4*; α(K)=0.00230 *4*; α(L)=0.000301 *5*; α(M)=6.06×10^{-5} *9*; α(N+..)=1.361×10^{-5} *20* α(N)=1.221×10^{-5} *18*; α(O)=1.406×10^{-6} *20* Mult.: DCO=0.82 *5*, A_2=+0.32 *8*, A_4=−0.11 *8*.
806.0 *10*	<1	2132.3	$(15/2^-)$	1326.1	$(11/2^-)$			
807.5 *3*	6 *1*	3248.3		2440.8	$(19/2^+)$			
812.1 *3*	11 *2*	6244.6	$(41/2^-)$	5432.5	$(39/2^-)$	D(+Q)		Mult.: DCO=0.60 *8*, A_2=+0.04 *8*, A_4=−0.07 *10*.
819 *1*	<1	5255.6		4436.6				
825[#f] *1*		4922?		4096.6				
828.1 *3*	11 *1*	2642.7	$(21/2^+)$	1814.7	$(17/2)^+$	Q		Mult.: DCO=1.28 *10*, A_2=+0.34 *8*, A_4=−0.17 *9*.
837 *1*	<1	x+2705.0		x+1868.0				
844[#f] *1*		4377?	$(29/2^+)$	3534.0	$(25/2^+)$			
847.3 *3*	54 *5*	3273.6	$(27/2^-)$	2426.3	$(23/2)^-$	Q		Mult.: DCO=1.03 *3*, A_2=+0.32 *6*, A_4=−0.03 *7*.
848 *1*	<1	2570.1	$(17/2^-)$	1721.9	$(13/2^-)$			
854[#f] *1*		4534?		3676.9				
854.5 *3*	4 *1*	3583.4	$(25/2^+)$	2728.9	$(21/2^+)$	Q		Mult.: DCO=1.02 *8*.
855 *1*	<1	3281.3		2426.3	$(23/2)^-$			

$^{121}_{53}I_{68}$-6

^{114}Cd(^{11}B,4nγ) 1992Li01,1991Li18,1994Wa08 (continued)

$\gamma(^{121}I)$ (continued)

E_γ[†]	I_γ[†]	E_i(level)	J_i^π	E_f	J_f^π	Mult.[@]	Comments
864.7 *3*	22 *2*	2728.9	$(21/2^+)$	1864.2	$(17/2)^+$	Q	Mult.: DCO=1.30 *8*; A_2=+0.41 *7*, A_4=−0.16 *7* for 864.7γ + 866.7γ.
865.8 *3*	19 *2*	2440.8	$(19/2^+)$	1575.0	$(15/2^+)$	Q	Mult.: DCO=1.13 *6*; A_2=+0.41 *7*, A_4=−0.16 *7* for 864.7γ + 866.7γ.
866.7 *3*	7 *1*	3085.8	$(23/2^+)$	2219.2	$(19/2)^+$	(Q)	
875.0 *3*	7 *1*	2621.3	$(19/2^+)$	1746.3	$(15/2^+)$	Q	Mult.: DCO=1.26 *7*; A_2=+0.31 *7*, A_4=−0.20 *8* (for 875.0γ + 876.4γ).
876.4 *3*	27 *3*	5041.0	$(35/2)^-$	4164.6	$(31/2)^-$	Q	Mult.: DCO=1.20 *8*, A_2=+0.31 *7*, A_4=−0.20 *8* for 875.0γ + 876.4γ.
880.8 *3*	<2	3966.6	$(27/2^+)$	3085.8	$(23/2^+)$		
889.4 *3*	4 *1*	3510.7	$(23/2^+)$	2621.3	$(19/2^+)$	Q	Mult.: DCO=0.96 *9*.
891 *1*	<1	3023.7	$(19/2^-)$	2132.3	$(15/2^-)$		
891.0 *3*	41 *4*	4164.6	$(31/2)^-$	3273.6	$(27/2^-)$	Q	Mult.: DCO=1.20 *5*, A_2=+0.26 *7*, A_4=−0.24 *7*.
891.4 *3*	6 *1*	3534.0	$(25/2^+)$	2642.7	$(21/2^+)$		
893 *1*	<2	1326.1	$(11/2^-)$	433.59	$(9/2)^+$		
896.2 *3*	3 *1*	3517.6	$(23/2^+)$	2621.3	$(19/2^+)$	Q	Mult.: DCO=1.01 *7*.
904 *1*	<2	2684.6		1780.5	$(19/2)^-$		
909 *1*	<2	7446.6		6537.1	$(43/2^-)$		
910 *1*	<2	3638.9		2728.9	$(21/2^+)$		
917 *1*	<1	3487.4	$(21/2^-)$	2570.1	$(17/2^-)$		
962[d] *1*	<2[d]	2201.4		1239.4	$(15/2)^-$		
962[d] *1*	<2[d]	7206.1	$(43/2^-)$	6244.6	$(41/2^-)$		
996 *1*	<2	2776.7		1780.5	$(19/2)^-$		
997[#] *1*		4635.9		3638.9			
1013 *1*	<2	3439.3		2426.3	$(23/2)^-$		
1046 *1*	<2	2285.9		1239.4	$(15/2)^-$		
1078 *1*	<2	2858.5		1780.5	$(19/2)^-$		
1105 *1*	<2	6537.1	$(43/2^-)$	5432.5	$(39/2^-)$		
1108 *1*	<1	4381.6		3273.6	$(27/2^-)$		
1163 *1*	<2	4436.6		3273.6	$(27/2^-)$		
1178 *1*	<1	3604.3		2426.3	$(23/2)^-$		
1258 *1*	<2	3684.3		2426.3	$(23/2)^-$		

[†] 1992Li01 presented transition intensities with I(γ+ce)(428.1γ)=100; evaluator approximated I(γ+ce) by Iγ when a small conversion coefficient was expected; unless otherwise noted; ΔIγ was estimated by evaluator assuming it to be 10% for strong transitions given in 2 digits, ΔIγ=1 for weak or less precise transitions given in 1 digit.

[‡] Corrected by evaluator for internal conversion coefficient from the I(γ+ce) given in 1992Li01;

[#] Only given in decay scheme (1992Li01).

[@] From DCO ratios and $\gamma\gamma(\theta)$, unless noted otherwise;

[&] Additional information on α(K)exp, α(L)exp from ^{121}Xe ε+β^+ decay (1972Mu03).

[a] Additional information from RUL in ^{118}Sn(^{6}Li,3nγ) (1994Ko13).

[b] From 1992Li02.

$^{121}_{53}I_{68}$-7

^{114}Cd(^{11}B,4nγ) 1992Li01,1991Li18,1994Wa08 (continued)

$\gamma(^{121}I)$ (continued)

[c] 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.
[d] Multiply placed with undivided intensity.
[e] Multiply placed with intensity suitably divided.
[f] Placement of transition in the level scheme is uncertain.

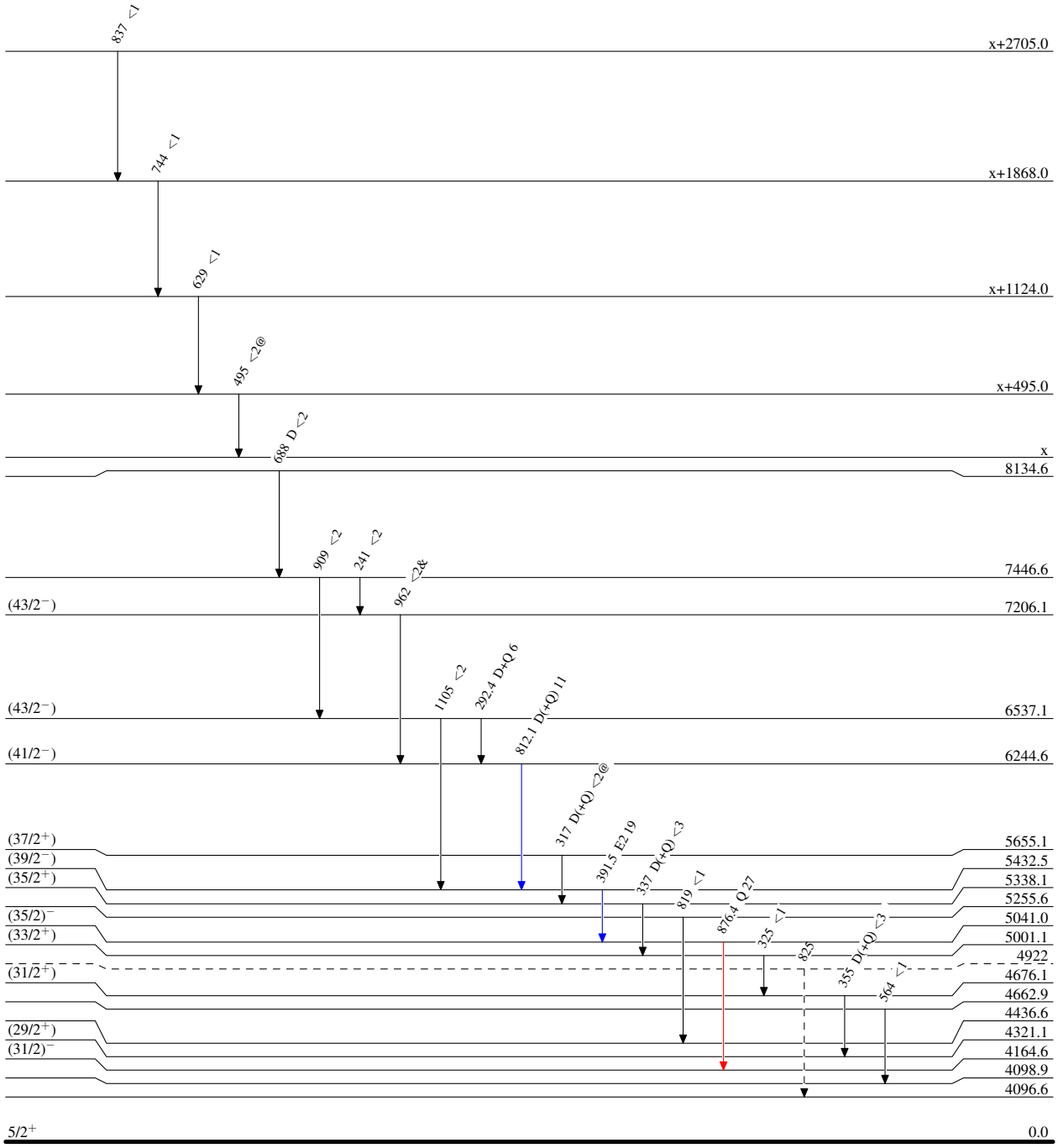
$^{121}_{53}I_{68}$-8

^{114}Cd(^{11}B,4nγ) 1992Li01,1991Li18,1994Wa08

Level Scheme

Intensities: Relative I_γ
& Multiply placed: undivided intensity given
@ Multiply placed: intensity suitably divided

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)



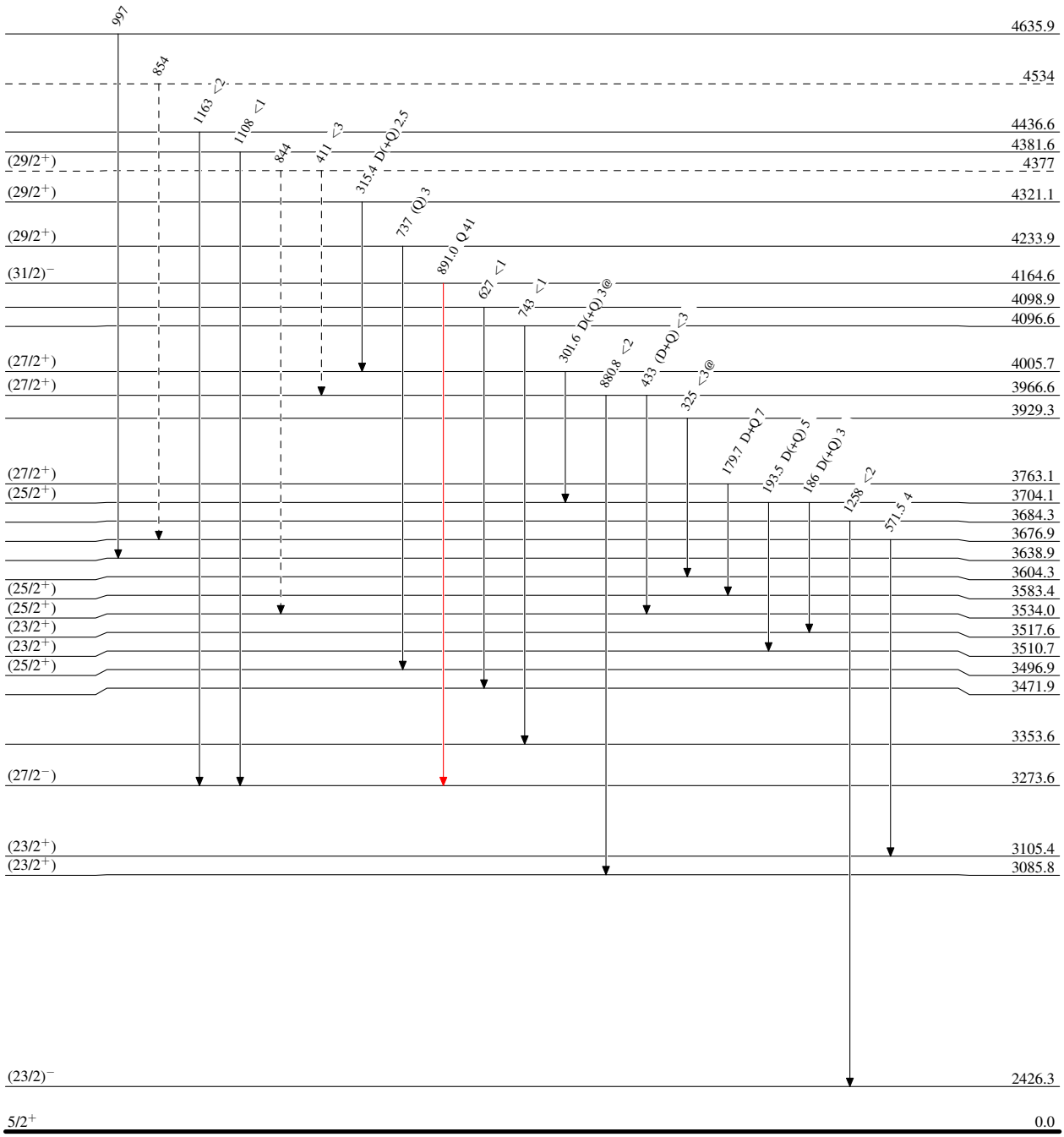
$^{121}_{53}I_{68}$

^{114}Cd(^{11}B,4nγ) 1992Li01,1991Li18,1994Wa08

Level Scheme (continued)

Intensities: Relative I_γ
& Multiply placed: undivided intensity given
@ Multiply placed: intensity suitably divided

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)

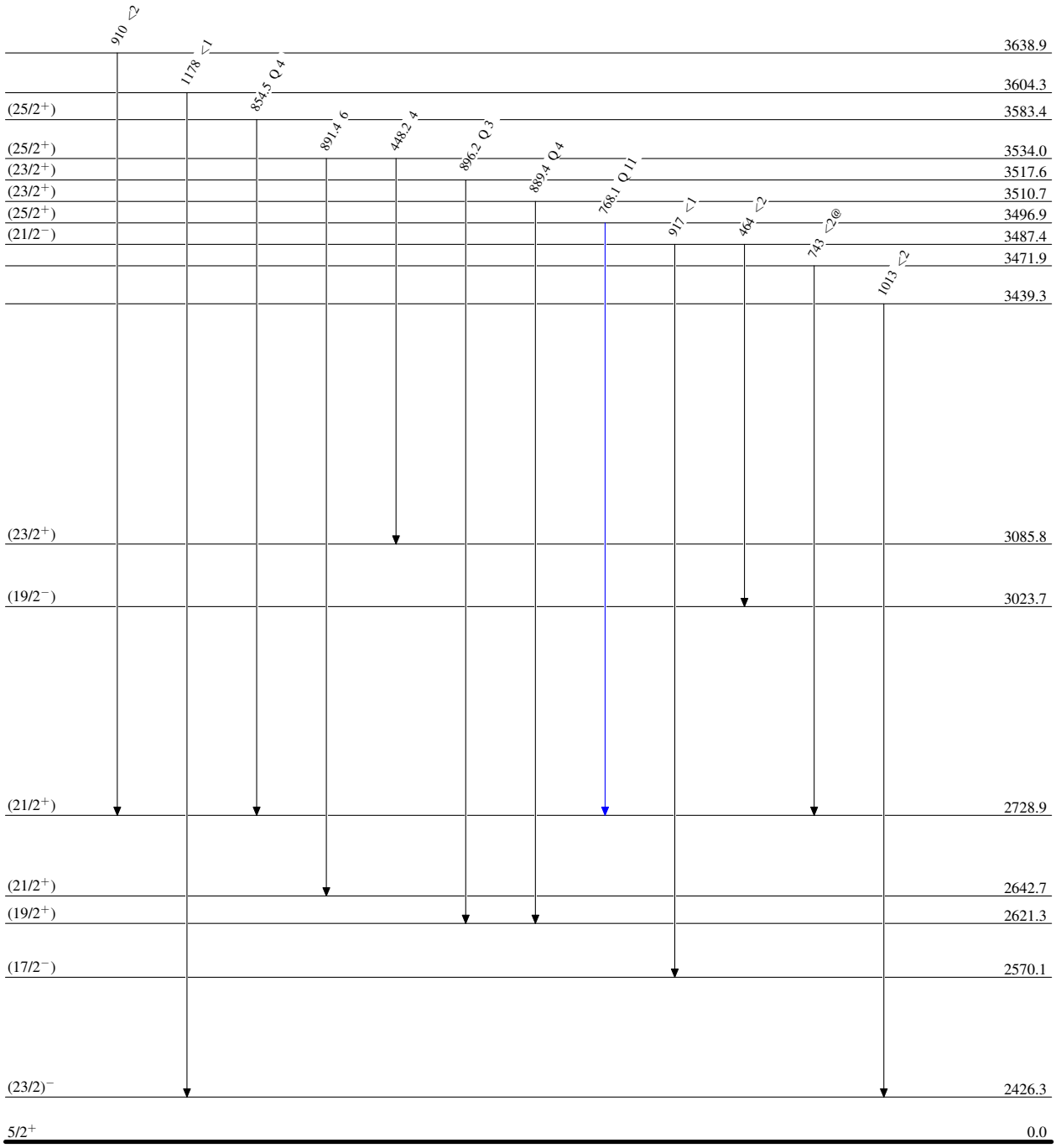


^{114}Cd(^{11}B,4nγ) 1992Li01,1991Li18,1994Wa08

Level Scheme (continued)

Intensities: Relative I_γ
& Multiply placed: undivided intensity given
@ Multiply placed: intensity suitably divided

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

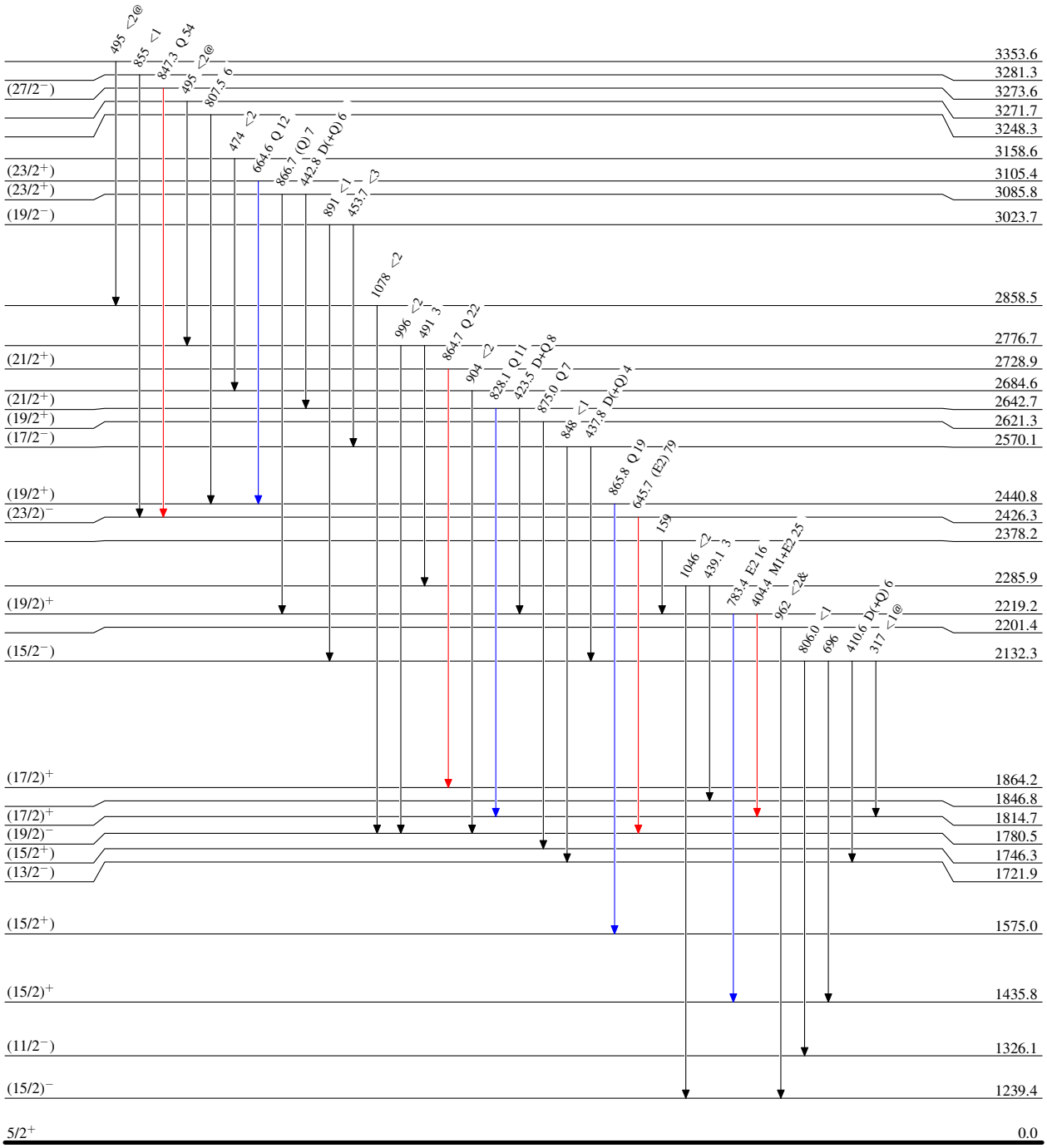


^{114}Cd(^{11}B,4nγ) 1992Li01,1991Li18,1994Wa08

Level Scheme (continued)

Intensities: Relative I_γ
& Multiply placed: undivided intensity given
@ Multiply placed: intensity suitably divided

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



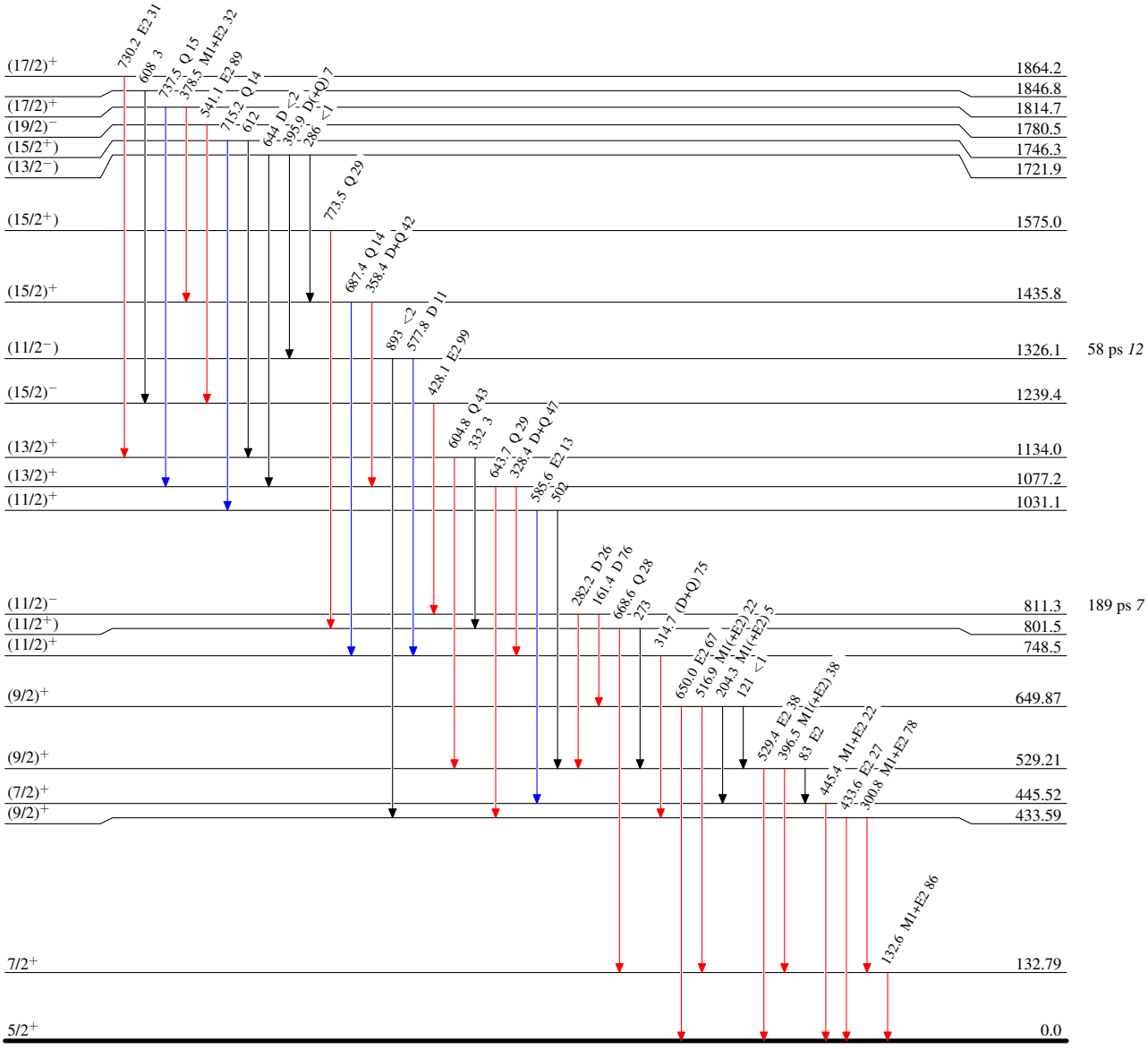
$^{121}_{53}I_{68}$

^{114}Cd(^{11}B,4nγ) 1992Li01,1991Li18,1994Wa08

Level Scheme (continued)

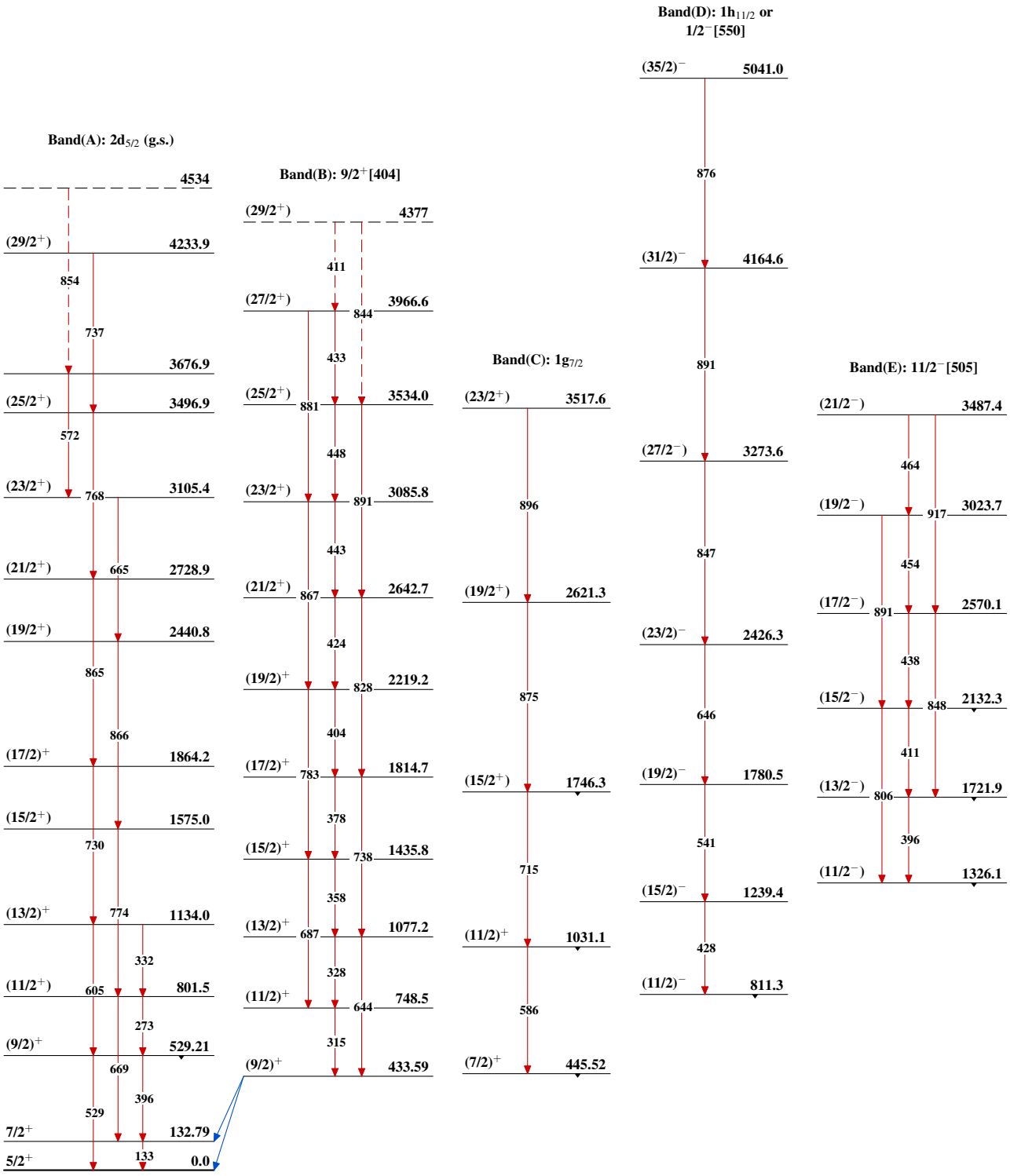
Intensities: Relative I_γ
& Multiply placed: undivided intensity given
@ Multiply placed: intensity suitably divided

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



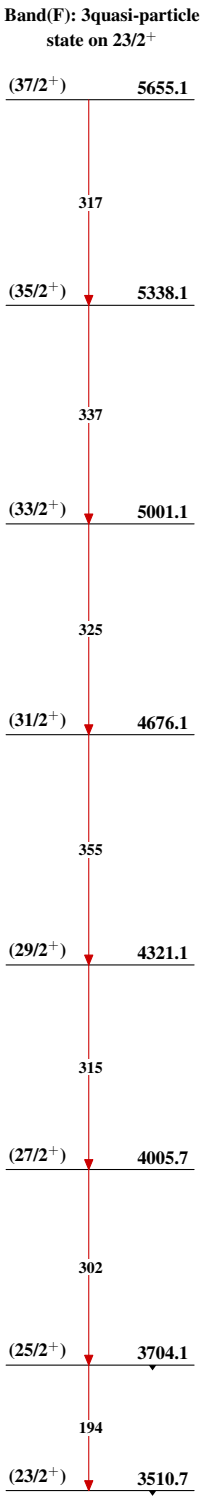
$^{121}_{53}I_{68}$

^{114}Cd(^{11}B,4nγ) 1992Li01,1991Li18,1994Wa08



$^{121}_{53}I_{68}$

^{114}Cd(^{11}B,4nγ) 1992Li01,1991Li18,1994Wa08 (continued)



$^{121}_{53}I_{68}$