Adopted Levels, Gammas

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	D. De Frenne	NDS 110, 2081 (2009)	1-Mar-2009

Q(β^-)=−6022 *10*; S(n)=9063.8 *25*; S(p)=5694 *9*; Q(α)=−896 *6* 2012Wa38
Note: Current evaluation has used the following Q record.
Q(β^-)=−6050 *20*; S(n)=904×10^1 *3*; S(p)=567×10^1 *3*; Q(α)=−887 *22* 2003Au03

^{103}Cd Levels

BAND: The labeling of the different sequences as given by 2007Ch74 in ^{72}Ge(^{35}Cl,p3nγ) exhibit an irregular and complex structure and therefore in general no simple band assignment can be made. Only a ΔJ=2 band on the 1670 keV (J^π=(11/2)$^-$) level was considered as a normal band by the evaluator. For the interpretation of the other sequences and the comparison with the theoretical calculations using the core particle coupling model (CPCM) see 2007Ch74. Also the termination of the band on the 1670 keV (J^π=(11/2)$^-$) level is discussed.

Cross Reference (XREF) Flags

A	^{103}In ε decay	D	^{94}Mo(^{12}C,3nγ)
B	^{58}Ni(^{50}Cr,4pnγ)	E	^{106}Cd(^{3}He,^{6}He)
C	^{72}Ge(^{35}Cl,p3nγ)		

E(level)†	Jπ‡	$T_{1/2}$	XREF	Comments
0.0	(5/2)$^+$	7.3 min *1*	ABC	%ε+%β^+=100 μ=−0.81 *3*; Q=−0.8 *7* (1989Ra17,1987Bu01) <r^2>$^{1/2}$=4.4860 fm *88* (2004An14, evaluation). Jπ: from analogy to ^{105}Cd, ^{107}Cd, ^{109}Cd g.s.π=+ from log *ft*=6.0 to J^π=7/2$^+$ of ^{103}Ag g.s. No direct measurement of J has been performed. $T_{1/2}$: from decay curves: β^+, 1080γ, 1449γ, 1463γ (1969Ha03). Other: 7.70 min *17* (1980Ka05).
187.89 *7*	(7/2)$^+$		ABC	Jπ: M1 γ to (5/2)$^+$. log *ft*=5.9 from (9/2$^+$).
201.75 *12*	(5/2)$^+$		A	Jπ: E2(+M1) γ to (5/2)$^+$.
391.8 *5*			A	
569.5 *4*			A	
726.29 *8*			A	
740.02 *8*	(9/2)$^+$		AB	Jπ: stretched E2 to (5/2)$^+$ and M1 to (7/2)$^+$. Member of a ΔJ=2 cascade on (5/2)$^+$ g.s. log *ft*=5.9 from (9/2$^+$).
908.01 *11*	(11/2)$^+$		AB	Jπ: stretched E2 γ to (7/2)$^+$, member of ΔJ=2 cascade on 187 keV level. log *ft*=5.8 from (9/2$^+$).
916.69 *22*			A	
1079.0 *8*			A	
1082 *12*			C	
1104.7 *6*	(7/2$^+$,9/2$^+$,11/2$^+$)		A	Jπ: suggested from log *ft*=5.74 from (9/2$^+$).
1107.6 *4*	(7/2$^+$,9/2$^+$)		A	Jπ: γ to (5/2)$^+$ excludes (11/2)$^+$. log *ft*=5.8 from (9/2$^+$).
1307.9 *12*			A	
1326.9 *8*			A	
1347.3 *8*			A	
1368.8 *6*	(7/2$^+$,9/2$^+$)		A	Jπ: γ to (5/2)$^+$ excludes (11/2)$^+$. log *ft*=5.9 from (9/2$^+$).
1480.8 *6*	(9/2,11/2$^+$)		A	Jπ: γ to (9/2)$^+$ and (11/2)$^+$, no γ to (5/2)$^+$. log *ft*=5.9 from (9/2$^+$).
1512.6 *7*	(13/2$^+$)		AB	Jπ: D to (11/2)$^+$ and Q to (9/2)$^+$ Member of a ΔJ=2 cascade on (5/2)$^+$ g.s. log *ft*=6.0 for ε decay from (9/2$^+$) ^{103}In g.s.
1598.2 *6*			A	
1604.9 *8*			A	
1662.0 *8*			A	

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Adopted Levels, Gammas (continued)

^{103}Cd Levels (continued)

E(level)[†]	Jπ[‡]	$T_{1/2}$	XREF	Comments
1670.94[#] *12*	(11/2⁻)		B	Jπ: D to (9/2⁺).
1744.8 *8*			A	
1779.9 *11*			A	
1790.1 *8*			A	
1830.10 *13*	(15/2⁺)		B	Jπ: E2 to (11/2)⁺. Member of a ΔJ=2 cascade.
1902.6 *11*			A	
1919.9 *7*			A	
1972.2 *5*	+		A	
1996.9 *8*			A	
2052.9 *8*	+		A	
2064 *22*			C	
2086.4 *11*			A	
2161.1 *12*			A	
2184.67 *12*	(17/2⁺)		B	Jπ: Q to (13/2⁺). Member of a ΔJ=2 cascade on J^{π}=(5/2)⁺ g.s.
2296.3 *10*			A	
2314.05[#] *12*	(15/2⁻)		B	Jπ: Q to (11/2⁻), (D) to (13/2⁺).
2342.6 *12*	+		A	
2452.2 *3*	(19/2⁺)	1.3 ns *2*	B	$T_{1/2}$: From γ(t) in ^{58}Ni(^{50}Cr,4pnγ) (1997Pa25) Not excluded that $T_{1/2}$ is associated with 2571 keV level (1997Pa25). Jπ: member of ΔJ=2 cascade based on (7/2)⁺ state.
2503 *18*			C	
2571.4 *7*	(21/2⁺)		B	Jπ: from D to (19/2⁺) and member of cascade on (5/2)⁺ g.s.
2611.91 *16*	(19/2⁺)		B	Jπ: Q to (15/2⁺).
2630 *18*			C	
2779.9 *4*	(23/2⁺)		B	
2781.3 *11*	+		A	
2794.7 *12*	+		A	
2799.21 *18*	(19/2⁺)		B	
2823.0 *11*	+		A	
2831.3 *21*			D	
3001.3 *21*			D	
3077.19 *15*	(21/2⁺)		B	Jπ: member of ΔJ=2 cascade on g.s.
3133.01[#] *13*	(19/2⁻)		B	Jπ: member of ΔJ=2 cascade on J^{π}=(11/2⁻) level at 1671 keV. Q to (15/2⁻).
3253.21 *19*			B	
3492.9 *8*	+		A	
3570.9 *8*	+		A	
3596.65 *19*	(23/2⁺)		B	Jπ: D to (21/2⁺).
3658.61 *18*	(21/2⁺)		B	
3766.74 *20*	(25/2⁺)		B	Jπ: Q to (21/2⁺), D to (23/2⁺).
3830.3 *8*	+		A	
3883.6 *4*			B	
4000.51[#] *15*	(23/2⁻)		B	Jπ: member of ΔJ=2 cascade on (11/2⁻) level. E2 to (19/2⁻).
4025.64 *22*	(27/2⁺)		B	Jπ: member of cascade on g.s. D to (25/2⁺).
4096.11 *17*	(23/2⁺)		B	
4352.9 *4*	(27/2⁺)		B	
4545.72 *21*	(25/2⁺)		B	
4729.4 *4*	(27/2⁺)		B	
4778.9 *4*	(29/2⁺)		B	
4813.61[#] *18*	(27/2⁻)		B	Jπ: member of ΔJ=2 cascade on (11/2⁻) level. E2 to (23/2⁻).
4836.25 *24*	(29/2⁺)		B	
5041.55 *24*	(29/2⁺)		B	
5098.7 *4*	(27/2⁺)		B	
5202.3 *4*	(27/2⁺)		B	
5230.8 *10*	(31/2)		B	
5371.9 *4*	(29/2⁺)		B	

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Adopted Levels, Gammas (continued)

^{103}Cd Levels (continued)

E(level)[†]	Jπ[‡]	XREF	E(level)[†]	Jπ[‡]	XREF	E(level)[†]	Jπ[‡]	XREF
5518.8 *7*	(29/2$^+$)	B	6462.7 *11*		B	7789.9 *7*		B
5547.42 *23*	(29/2)$^+$	B	6489.4 *5*	(35/2$^+$)	B	8011.7[#] *9*	(39/2$^-$)	B
5570.7 *4*		B	6549.2 *11*		B	8260.8 *9*		B
5587.6 *4*	(29/2$^+$)	B	6631.5 *7*		B	8555.9 *6*		B
5633.8 *4*	(31/2$^+$)	B	6633.5 *9*	(35/2$^+$)	B	8609.9 *9*		B
5714.6[#] *5*	(31/2$^-$)	B	6687.4 *5*	(33/2$^+$)	B	8621.6 *10*		B
5837.3 *4*	(31/2$^+$)	B	6772.0 *8*		B	8775.4 *10*		B
5837.5 *6*	(31/2$^+$)	B	6777.5[#] *5*	(35/2$^-$)	B	8861.1 *11*		B
5909.3 *4*	(31/2$^+$)	B	7051.8 *11*		B	9163.1 *11*		B
5983.2 *5*	(31/2$^+$)	B	7070.5 *9*	(35/2$^+$)	B	9686.8 *9*		B
6045.3 *4*	(31/2$^+$)	B	7193.3 *11*		B	9687.4 *8*		B
6218.1 *7*	(33/2$^+$)	B	7343.6 *6*		B	9707.1[#] *11*	(43/2$^-$)	B
6272.8 *5*		B	7357.8 *7*		B	9725.4 *10*		B
6375.9 *5*	(33/2$^+$)	B	7483.7 *9*		B	11877.7[#] *15*	(47/2$^-$)	B

[†] From adopted γ's using a least-squares procedure.

[‡] Unless noted otherwise, based on $\gamma(\theta)$, and observed cascades in ^{72}Ge(^{35}Cl,p3nγ) (2007Ch74); ^{58}Ni(^{50}Cr,4pnγ) (1997Pa25) and $\gamma(\theta)$ and linear polarization in ^{94}Mo(^{12}C,3nγ) (1980Me09). Also the general argument was used that levels populated in heavy-ion reactions usually have spins increasing with excitation energy. J^π values from levels observed in ε decay are from log *ft* values.

[#] Band(A): γ cascade based on (11/2$^-$) (2007Ch74).

Adopted Levels, Gammas (continued)

γ(^{103}Cd)

E_i(level)	J_i^π	E_γ[†]	I_γ	E_f	J_f^π	Mult.[‡]	δ[#]	α[@]	Comments
187.89	$(7/2)^+$	187.90 *8*	100	0.0	$(5/2)^+$	M1(+E2)	≤0.1	0.08141 *2*	α(K)exp=0.065 *11* (1978Lh01) Mult.: based on α(K)exp, 188γ(θ) and linear pol.
201.75	$(5/2)^+$	201.81 *12*	100	0.0	$(5/2)^+$	E2(+M1)		0.1254	α(K)exp=0.13 *4* (1978Lh01) Mult.: from α(K)exp. No δ given.
391.8		391.7	100	0.0	$(5/2)^+$				
569.5		177.8	7.1 *12*	391.8					
		367.5	100 *11*	201.75	$(5/2)^+$				
		381.7	6.7 *11*	187.89	$(7/2)^+$				
		569.4	59 *7*	0.0	$(5/2)^+$				
726.29		156.7	1.98 *23*	569.5					
		524.3	6.4 *7*	201.75	$(5/2)^+$				
		538.3	5.2 *6*	187.89	$(7/2)^+$				
		726.29 *8*	100 *11*	0.0	$(5/2)^+$				
740.02	$(9/2)^+$	538.1	2.6 *3*	201.75	$(5/2)^+$				
		552.2 *1*	10 *4*	187.89	$(7/2)^+$	M1			
		740.0 *1*	100 *7*	0.0	$(5/2)^+$	E2			
908.01	$(11/2)^+$	168.20 *14*	1.2 *4*	740.02	$(9/2)^+$	M1		0.1094 *17*	
		515.6	0.56 *12*	391.8					
		720.06 *7*	100 *5*	187.89	$(7/2)^+$	E2			
916.69		191.0	51 *9*	726.29					
		525.0	44 *8*	391.8					
		714.8	100 *13*	201.75	$(5/2)^+$				
1079.0		877.0	77 *16*	201.75	$(5/2)^+$				
		891.3	100 *20*	187.89	$(7/2)^+$				
1104.7	$(7/2^+,9/2^+,11/2^+)$	378.6	2.6 *6*	726.29					
		535.1	2.6 *6*	569.5					
		916.7	100 *10*	187.89	$(7/2)^+$				
1107.6	$(7/2^+,9/2^+)$	190.8	0.41 *14*	916.69					
		367.7	10.6 *18*	740.02	$(9/2)^+$				
		538.0	19 *4*	569.5					
		715.2	27 *4*	391.8					
		905.7	16.6 *22*	201.75	$(5/2)^+$				
		919.8	73 *8*	187.89	$(7/2)^+$				
		1107.3	100 *11*	0.0	$(5/2)^+$				
1307.9		391.0	100	916.69					
1326.9		586.7	73 *10*	740.02	$(9/2)^+$				
		1124.7	100 *4*	201.75	$(5/2)^+$				
1347.3		1145.6	33 *6*	201.75	$(5/2)^+$				
		1159.3	100 *12*	187.89	$(7/2)^+$				
1368.8	$(7/2^+,9/2^+)$	977.0	36 *4*	391.8					
		1167.1	25 *3*	201.75	$(5/2)^+$				
		1181.0	100 *15*	187.89	$(7/2)^+$				
		1368.8	45 *5*	0.0	$(5/2)^+$				

$^{103}_{48}Cd_{55}$-4

Adopted Levels, Gammas (continued)

γ(^{103}Cd) (continued)

E_i(level)	J_i^π	E_γ †	I_γ	E_f	J_f^π	Mult. ‡	Comments
1480.8	(9/2,11/2$^+$)	572.9	20.0 *23*	908.01	(11/2)$^+$		
		740.4	50 *7*	740.02	(9/2)$^+$		
		754.4	100 *12*	726.29			
1512.6	(13/2$^+$)	604.7 *1*	29 *13*	908.01	(11/2)$^+$	D	
		772.4 *1*	100 *7*	740.02	(9/2)$^+$	Q	
1598.2		490.7	13.9 *24*	1107.6	(7/2$^+$,9/2$^+$)		
		871.7	25 *3*	726.29			
		1410.5	100 *12*	187.89	(7/2)$^+$		
1604.9		864.8	100 *12*	740.02	(9/2)$^+$		
		1402.6	40 *7*	201.75	(5/2)$^+$		
1662.0		1460.1	80 *10*	201.75	(5/2)$^+$		
		1474.1	100 *13*	187.89	(7/2)$^+$		
1670.94	(11/2$^-$)	930.9 *1*	100	740.02	(9/2)$^+$	D	
1744.8		1005.0	99 *12*	740.02	(9/2)$^+$		
		1018.5	100 *11*	726.29			
1779.9		1040.0	100	740.02	(9/2)$^+$		
1790.1		1050.1	77 *11*	740.02	(9/2)$^+$		
		1064.0	100 *18*	726.29			
1830.10	(15/2$^+$)	318.04 *15*	12.2 *13*	1512.6	(13/2$^+$)	D	
		921.2 *5*	100 *5*	908.01	(11/2)$^+$	E2	
1902.6		994.8	100	908.01	(11/2)$^+$		
1919.9		407.0	18 *3*	1512.6	(13/2$^+$)		
		1180.3	100 *16*	740.02	(9/2)$^+$		
		1732.0	33 *5*	187.89	(7/2)$^+$		
1972.2	$^+$	864.3	35 *4*	1107.6	(7/2$^+$,9/2$^+$)		
		1232.0	26 *5*	740.02	(9/2)$^+$		
		1402.3	12 *3*	569.5			
		1580.8	18 *3*	391.8			
		1783.9	31 *4*	187.89	(7/2)$^+$		
		1972.0	100 *12*	0.0	(5/2)$^+$		
1996.9		892.3	60 *11*	1104.7	(7/2$^+$,9/2$^+$,11/2$^+$)		
		1089.1	100 *19*	908.01	(11/2)$^+$		
2052.9	$^+$	1145.0	44 *6*	908.01	(11/2)$^+$		
		1326.8	100 *11*	726.29			
2086.4		1178.6	100 *18*	908.01	(11/2)$^+$		
2161.1		648.5	100	1512.6	(13/2$^+$)		
2184.67	(17/2$^+$)	354.77 *8*	50 *5*	1830.10	(15/2$^+$)	D	
		671.9 *1*	100 *10*	1512.6	(13/2$^+$)	Q	
2296.3		1570.0	100	726.29			
2314.05	(15/2$^-$)	643.1 *2*	100 *9*	1670.94	(11/2$^-$)	Q	
		801.4 *1*	87 *8*	1512.6	(13/2$^+$)	D	
2342.6	$^+$	1425.7	100	916.69			
2452.2	(19/2$^+$)	622.70 *15*	100	1830.10	(15/2$^+$)	E2	B(E2)(W.u.)=0.162 *25*

$^{103}_{48}Cd_{55}$-5

Adopted Levels, Gammas (continued)

$\gamma(^{103}Cd)$ (continued)

E_i(level)	J^{π}_i	E_{γ}†	I_{γ}	E_f	J^{π}_f	Mult.‡	α@
2571.4	(21/2$^+$)	118.7 *1*	100	2452.2	(19/2$^+$)	D	0.286 *5*
2611.91	(19/2$^+$)	781.8 *1*	100	1830.10	(15/2$^+$)	Q	
2779.9	(23/2$^+$)	209.1 *4*	100	2571.4	(21/2$^+$)	D	
2781.3	$^+$	2211.7	100	569.5			
2794.7	$^+$	1690.0	100	1104.7	(7/2$^+$,9/2$^+$,11/2$^+$)		
2799.21	(19/2$^+$)	187.7 *6*	36 *3*	2611.91	(19/2$^+$)		
		969.10 *11*	100 *9*	1830.10	(15/2$^+$)	Q	
2823.0	$^+$	1915.2	100	908.01	(11/2)$^+$		
2831.3		260 *2*	100	2571.4	(21/2$^+$)		
3001.3		170.3 *2*	100	2831.3			
3077.19	(21/2$^+$)	892.5 *1*	100	2184.67	(17/2$^+$)	Q	
3133.01	(19/2$^-$)	818.7 *2*	100 *10*	2314.05	(15/2$^-$)	Q	
		947.4 *1*	9 *1*	2184.67	(17/2$^+$)	D	
3253.21		641.3 *1*	100	2611.91	(19/2$^+$)		
3492.9	$^+$	2585.0	82 *9*	908.01	(11/2)$^+$		
		3305.0	100 *12*	187.89	(7/2)$^+$		
3570.9	$^+$	3382.8	100 *13*	187.89	(7/2)$^+$		
		3570.9	44 *6*	0.0	(5/2)$^+$		
3596.65	(23/2$^+$)	1025.2 *1*	100 *9*	2571.4	(21/2$^+$)	D	
		1144.28 *15*	18.3 *21*	2452.2	(19/2$^+$)		
3658.61	(21/2$^+$)	859.6 *1*	100 *10*	2799.21	(19/2$^+$)	D	
		1046.5 *1*	51 *5*	2611.91	(19/2$^+$)	D	
3766.74	(25/2$^+$)	170.1 *1*	30 *6*	3596.65	(23/2$^+$)	D	
		689.0 *2*	2 *1*	3077.19	(21/2$^+$)		
		1194.5 *3*	100 *11*	2571.4	(21/2$^+$)	Q	
3830.3	$^+$	3642.4	100 *13*	187.89	(7/2)$^+$		
		3830.2	15.9 *16*	0.0	(5/2)$^+$		
3883.6		630.70 *14*	100	3253.21			
4000.51	(23/2$^-$)	867.5 *1*	100 *6*	3133.01	(19/2$^-$)	Q	
		923.30 *9*	8.8 *6*	3077.19	(21/2$^+$)		
		1429.9 *9*	2.4 *3*	2571.4	(21/2$^+$)		
4025.64	(27/2$^+$)	258.9 *1*	100	3766.74	(25/2$^+$)	D	
4096.11	(23/2$^+$)	963.1 *1*	100	3133.01	(19/2$^-$)	(Q)	
4352.9	(27/2$^+$)	256.60 *16*	81 *5*	4096.11	(23/2$^+$)	Q	
		1099.90 *15*	67 *5*	3253.21			
		1572.90 *12*	100 *10*	2779.9	(23/2$^+$)	Q	
4545.72	(25/2$^+$)	449.6 *3*	16.5 *22*	4096.11	(23/2$^+$)		
		887.1 *1*	100 *10*	3658.61	(21/2$^+$)	Q	
4729.4	(27/2$^+$)	963.50 *11*	100	3766.74	(25/2$^+$)	D	
4778.9	(29/2$^+$)	425.7 *6*	100 *9*	4352.9	(27/2$^+$)	D	
		1182.60 *24*	10 *1*	3596.65	(23/2$^+$)		
4813.61	(27/2$^-$)	813.3 *3*	100	4000.51	(23/2$^-$)	Q	
4836.25	(29/2$^+$)	811.2 *5*	100	4025.64	(27/2$^+$)	D	

Adopted Levels, Gammas (continued)

γ(^{103}Cd) (continued)

E_i(level)	J_i^π	E_γ †	I_γ	E_f	J_f^π	Mult.‡
5041.55	(29/2$^+$)	1015.9 *1*	100	4025.64	(27/2$^+$)	
5098.7	(27/2$^+$)	1332.4 *1*	100	3766.74	(25/2$^+$)	D
5202.3	(27/2$^+$)	849.30 *22*	100	4352.9	(27/2$^+$)	D
		1606.3&		3596.65	(23/2$^+$)	
5230.8	(31/2)	451.9 *9*	100	4778.9	(29/2$^+$)	D
5371.9	(29/2$^+$)	642.30 *11*	100 *11*	4729.4	(27/2$^+$)	D
		1346.70 *17*	22.7 *23*	4025.64	(27/2$^+$)	D
5518.8	(29/2$^+$)	739.8 *8*	100	4778.9	(29/2$^+$)	D
5547.42	(29/2)$^+$	1001.7 *8*	100	4545.72	(25/2$^+$)	Q
5570.7		841.30& *13*		4729.4	(27/2$^+$)	
5587.6	(29/2$^+$)	385.30 *14*	100 *13*	5202.3	(27/2$^+$)	D
		808.80 *18*	63 *6*	4778.9	(29/2$^+$)	D
5633.8	(31/2$^+$)	1608.60 *10*	100	4025.64	(27/2$^+$)	Q
5714.6	(31/2$^-$)	901.4 *3*	100	4813.61	(27/2$^-$)	Q
5837.3	(31/2$^+$)	1001.10 *18*	100 *11*	4836.25	(29/2$^+$)	D
		1108.40 *25*	41 *4*	4729.4	(27/2$^+$)	
5837.5	(31/2$^+$)	249.7 *7*	100 *10*	5587.6	(29/2$^+$)	D
		318.6 *6*	73 *8*	5518.8	(29/2$^+$)	D
5909.3	(31/2$^+$)	537.4 *3*	17.1 *24*	5371.9	(29/2$^+$)	D
		868.30 *25*	44 *5*	5041.55	(29/2$^+$)	D
		1072.90 *11*	100 *10*	4836.25	(29/2$^+$)	D
5983.2	(31/2$^+$)	942.2 *4*	5.3 *11*	5041.55	(29/2$^+$)	D
		1146.90 *22*	100 *11*	4836.25	(29/2$^+$)	D
6045.3	(31/2$^+$)	208.30 *17*		5837.3	(31/2$^+$)	
		330.6 *5*	100 *9*	5714.6	(31/2$^-$)	D
		673.10 *14*	69 *7*	5371.9	(29/2$^+$)	D
		947.50 *17*	13.0 *19*	5098.7	(27/2$^+$)	Q
		1004.00 *17*	33 *4*	5041.55	(29/2$^+$)	D
6218.1	(33/2$^+$)	380.4 *5*	100	5837.5	(31/2$^+$)	D
6272.8		1436.5 *3*	100	4836.25	(29/2$^+$)	
6375.9	(33/2$^+$)	466.60 *13*	100 *9*	5909.3	(31/2$^+$)	D
		1539.5 *4*	7.8 *13*	4836.25	(29/2$^+$)	Q
6462.7		417.3&		6045.3	(31/2$^+$)	
6489.4	(35/2$^+$)	270.9 *8*	46 *5*	6218.1	(33/2$^+$)	D
		443.7 *4*	100 *10*	6045.3	(31/2$^+$)	Q
6549.2		1712.9&		4836.25	(29/2$^+$)	
6631.5		358.7 *5*		6272.8		
		587.1&		6045.3	(31/2$^+$)	
6633.5	(35/2$^+$)	415.4 *5*	100	6218.1	(33/2$^+$)	D
6687.4	(33/2$^+$)	704.10 *17*	100	5983.2	(31/2$^+$)	D
6772.0		1057.4& *6*	100	5714.6	(31/2$^-$)	
6777.5	(35/2$^-$)	287.8 *3*	22.5 *23*	6489.4	(35/2$^+$)	D
		1063.4 *4*	100 *9*	5714.6	(31/2$^-$)	Q
7051.8		562.4&		6489.4	(35/2$^+$)	
7070.5	(35/2$^+$)	694.6 *7*	100	6375.9	(33/2$^+$)	D
7193.3		1210.1&		5983.2	(31/2$^+$)	
7343.6		566.10 *23*	100	6777.5	(35/2$^-$)	
7357.8		580.3 *4*	100	6777.5	(35/2$^-$)	
7483.7		796.3 *7*		6687.4	(33/2$^+$)	
7789.9		1012.4 *4*	100	6777.5	(35/2$^-$)	
8011.7	(39/2$^-$)	1234.2 *7*	100	6777.5	(35/2$^-$)	Q
8260.8		917.2 *7*	100	7343.6		
8555.9		1778.4 *3*	100	6777.5	(35/2$^-$)	
8609.9		598.2 *3*	100	8011.7	(39/2$^-$)	
8621.6		609.9 *5*	100	8011.7	(39/2$^-$)	
8775.4		763.7 *4*	100	8011.7	(39/2$^-$)	
8861.1		849.4 *6*	100	8011.7	(39/2$^-$)	
9163.1		1151.4& *7*	100	8011.7	(39/2$^-$)	
9686.8		1675.1 *3*	100	8011.7	(39/2$^-$)	
9687.4		1131.5 *5*	100	8555.9		
9707.1	(43/2$^-$)	1695.4 *6*	100	8011.7	(39/2$^-$)	(Q)
9725.4		1713.7& *5*	100	8011.7	(39/2$^-$)	
11877.7	(47/2$^-$)	2170.6&		9707.1	(43/2$^-$)	(Q)

† Taken from the most precise data from ^{103}In ε decay, (HI,xnγ).

‡ From γ(θ) and linear polarization in ^{94}Mo(^{12}C,3nγ) (1980Me09), anisotropy values in ^{58}Ni(^{50}Cr,4pnγ) (1997Pa25) DCO values in ^{72}Ge(^{35}Cl,p3nγ) (2007Ch74) and α(K)exp in ^{103}In ε decay (1978Lh01). The latter data were obtained with a mini orange spectrometer.

From γ(θ) and linear polarization in ^{94}Mo(^{12}C,3nγ).

@ 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.

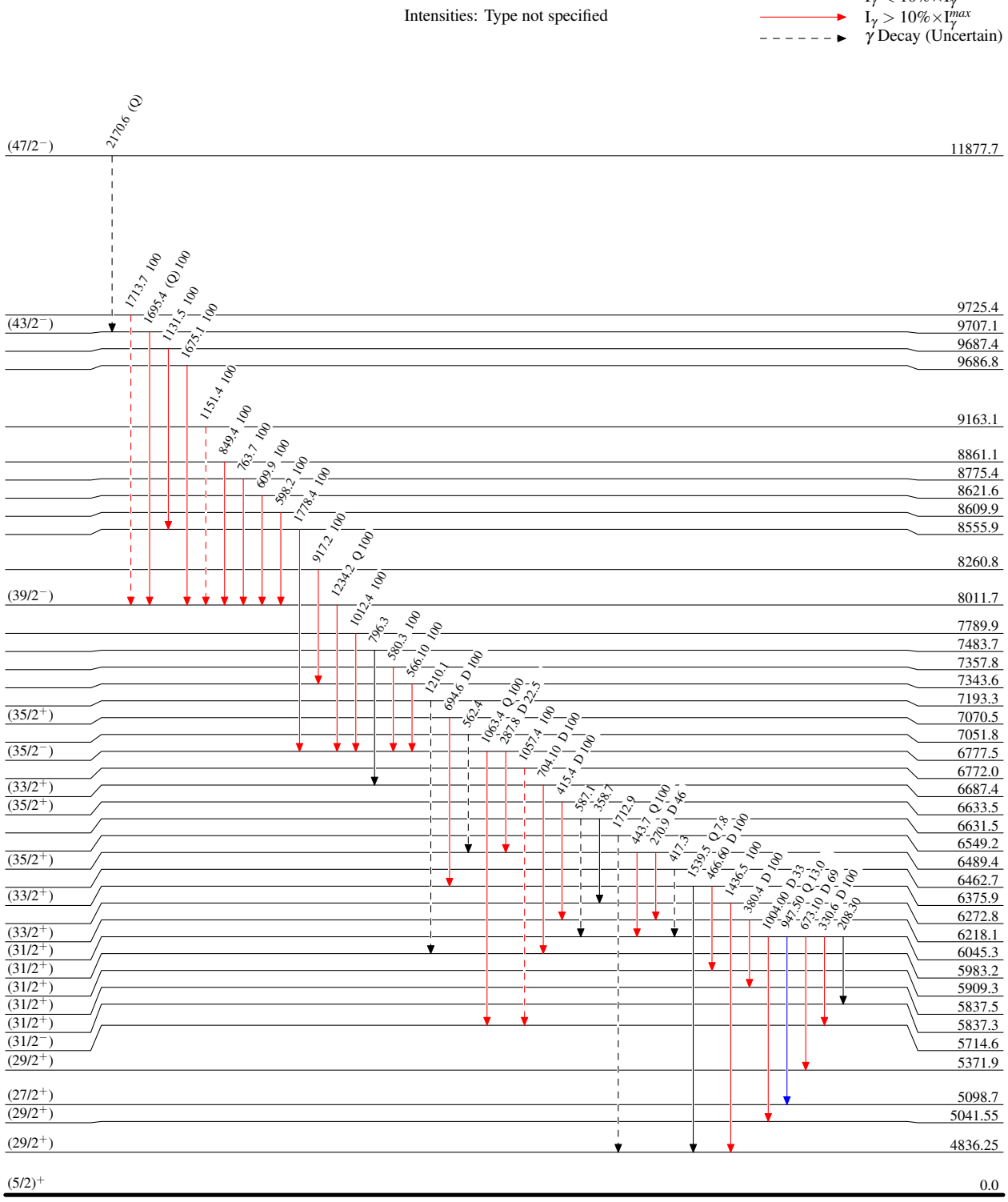
& Placement of transition in the level scheme is uncertain.

$^{103}_{48}Cd_{55}$-7

Adopted Levels, Gammas

Level Scheme

Intensities: Type not specified

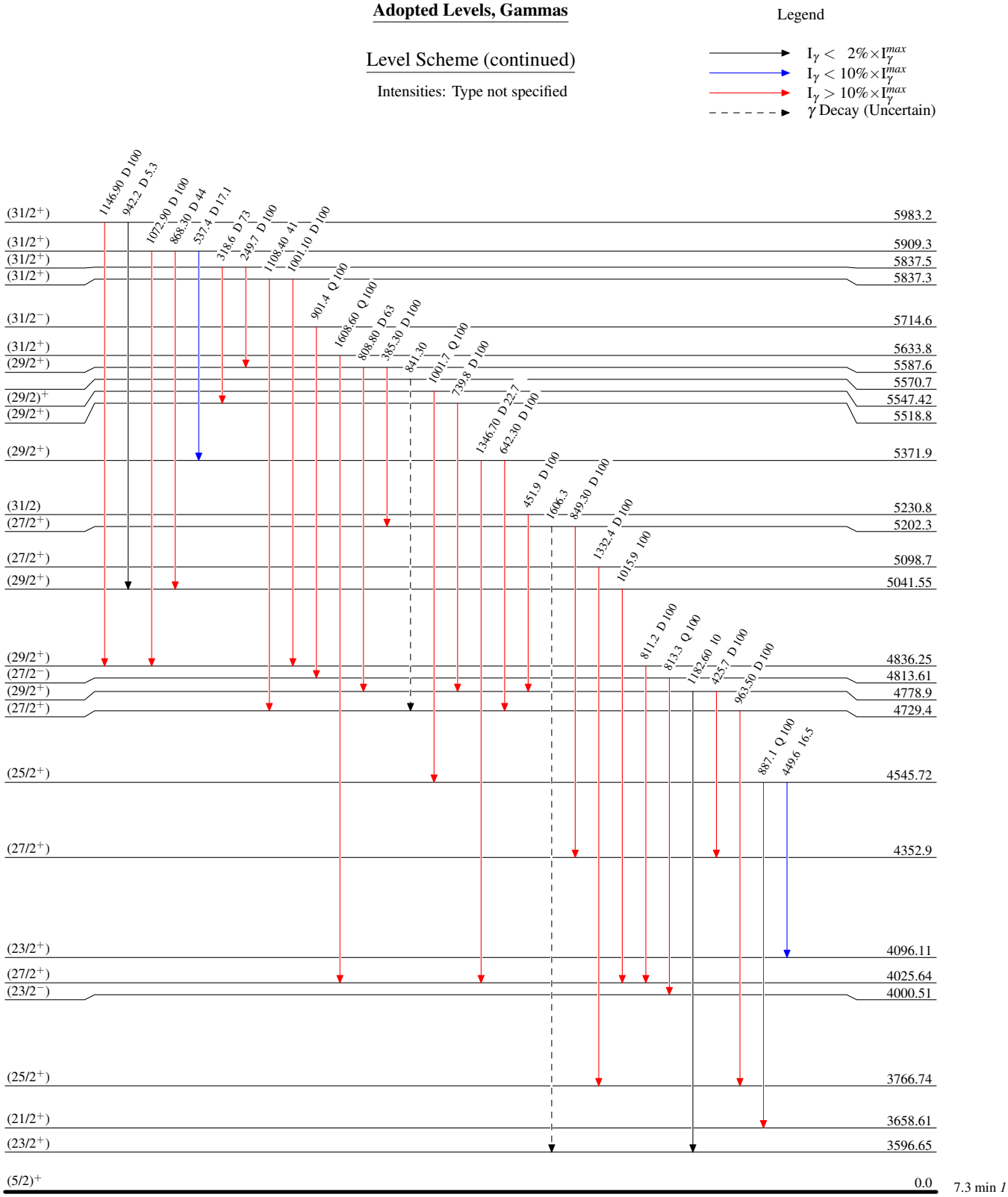


$^{103}_{48}Cd_{55}$

Adopted Levels, Gammas

Level Scheme (continued)

Intensities: Type not specified

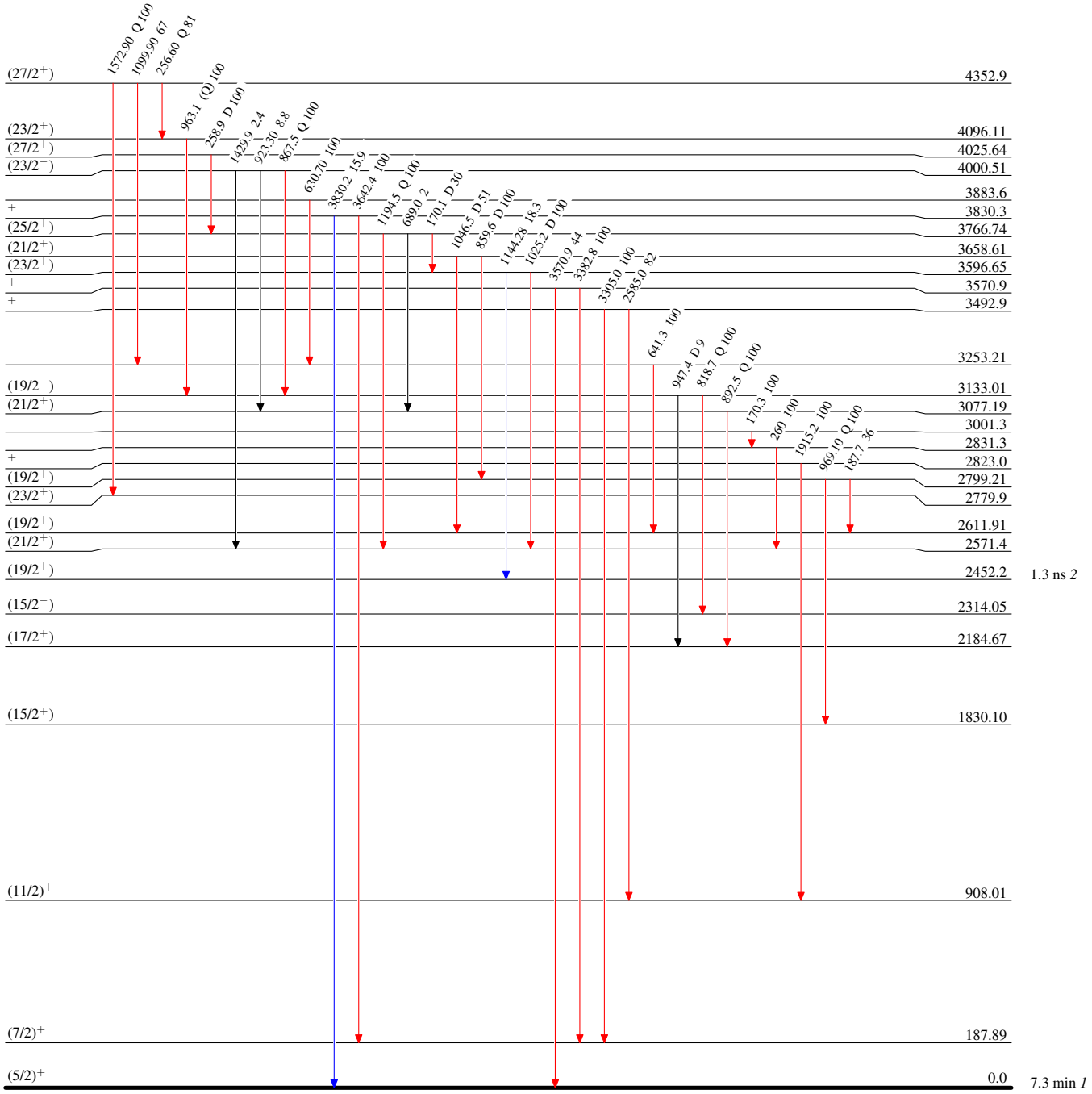


$^{103}_{48}Cd_{55}$

Adopted Levels, Gammas

Level Scheme (continued)

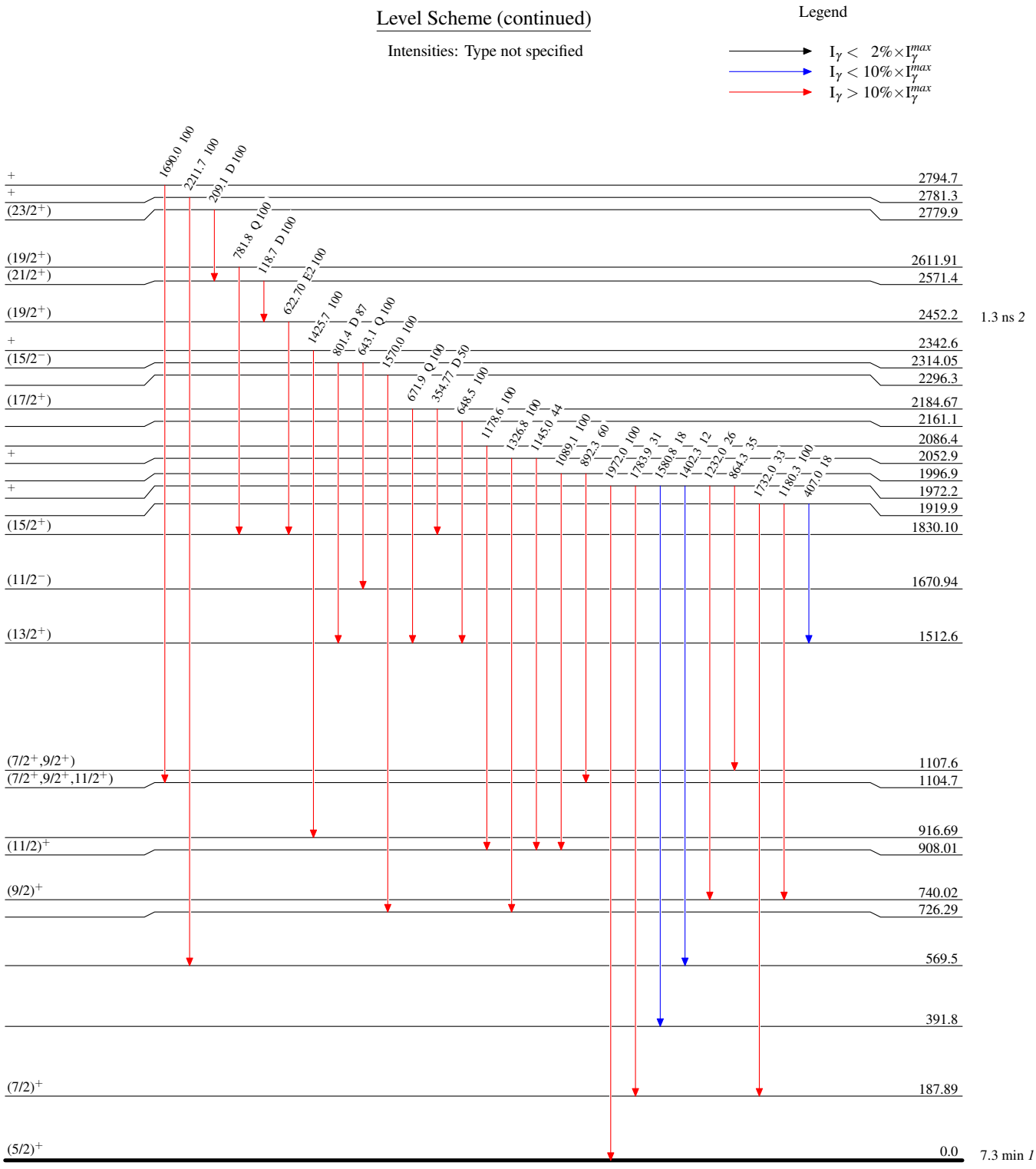
Intensities: Type not specified



Adopted Levels, Gammas

Level Scheme (continued)

Intensities: Type not specified

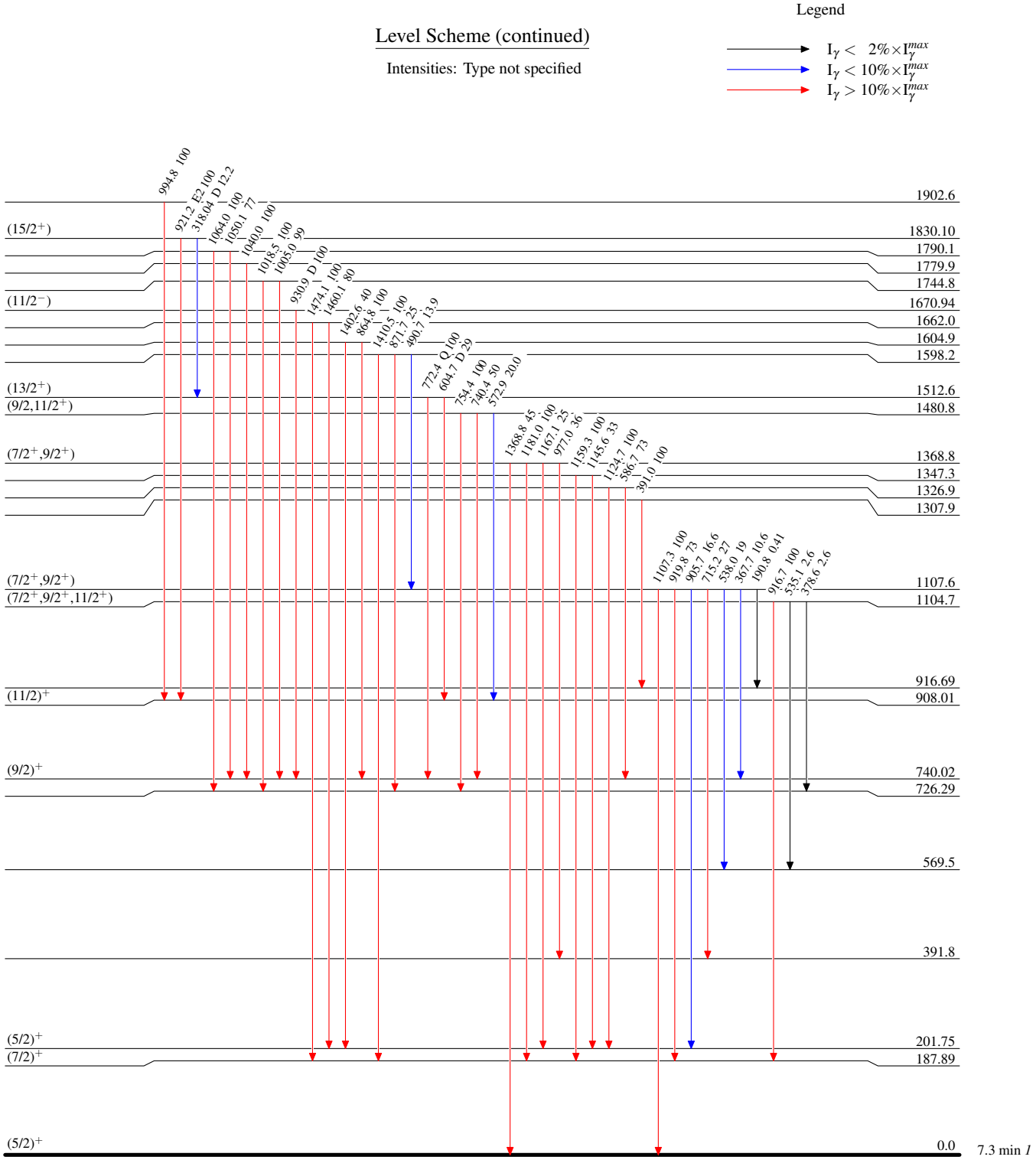


$^{103}_{48}Cd_{55}$

Adopted Levels, Gammas

Level Scheme (continued)

Intensities: Type not specified

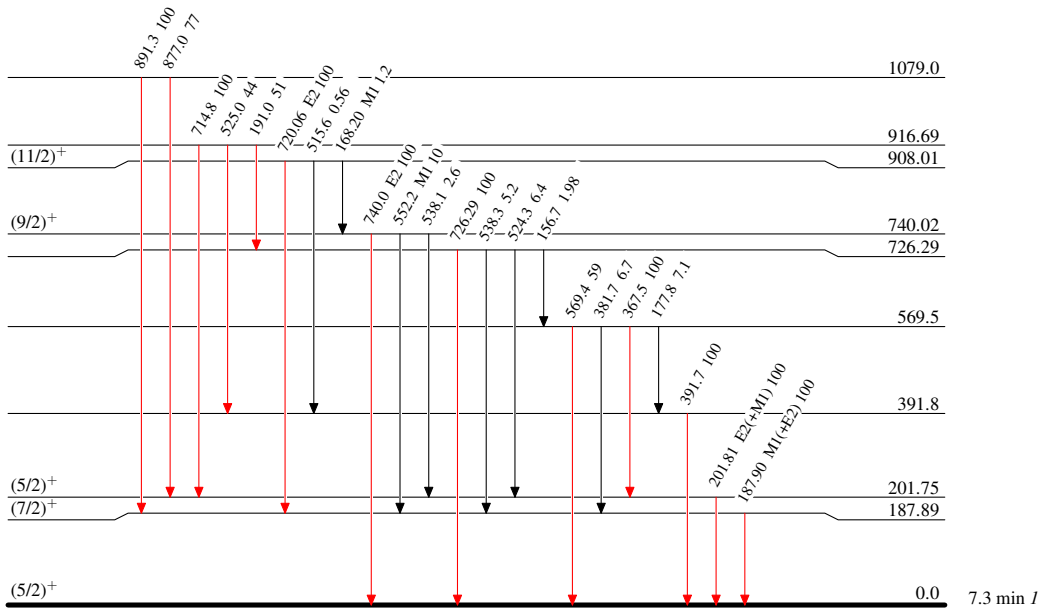


$^{103}_{48}Cd_{55}$

Adopted Levels, Gammas

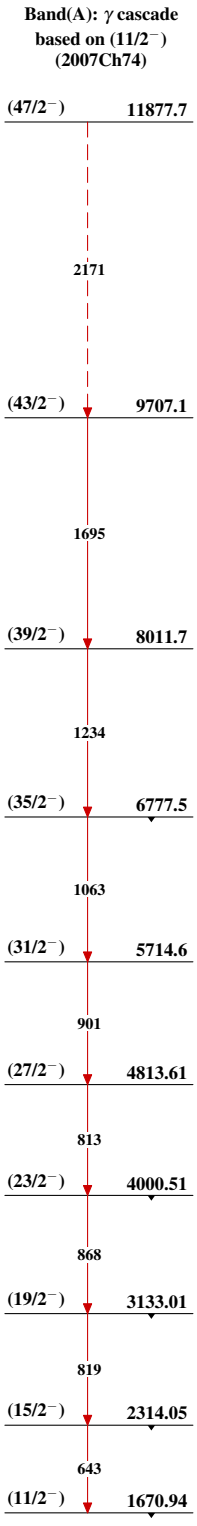
Level Scheme (continued)

Intensities: Type not specified



$^{103}_{48}Cd_{55}$

Adopted Levels, Gammas



$^{103}_{48}Cd_{55}$