^{119}Ag β^- decay (2.1 s) 1975Ka09

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	D. M. Symochko, E. Browne, J. K. Tuli	NDS 110,2945 (2009)	1-Dec-2008

Parent: ^{119}Ag: E=0.0+x; J$^\pi$=(7/2$^+$); T$_{1/2}$=2.1 s *1*; Q(β^-)=5.33×10^3 *4*; %β^- decay=100.0

Additional information 1.

1975Ka09: ^{235}U(n,f) E=th, on-line mass separation; semi, scin; measured: γ, K x ray, ce; semi-semi $\gamma\gamma$; plastic-NaI $\gamma\gamma$(t), γ(K x ray)(t).

Others: semi $\beta\gamma$, Q(β^-) (1982Al29); γ (1988RuZW).

β-strength function: 1975Al11 deduced 92% decay to levels above 250 keV.

Decay scheme is that proposed by 1975Ka09. Four possible levels 1245, 1471, 2605 and 2869 keV suggested by 1975Ka09 are also added by the evaluators.

^{119}Cd Levels

E(level)[‡]	J$^\pi$[†]	T$_{1/2}$	E(level)[‡]	J$^\pi$[†]
0	1/2$^+$	2.69 min *2*	1130.80 *10*	(5/2,7/2$^+$)
27.00 *6*	3/2$^+$	2.3 ns *4*	1245.57? *12*	
146.53 *11*	(11/2$^-$)	2.20 min *2*	1278.80 *9*	(5/2$^+$,7/2$^+$)
213.90 *11*	(9/2$^-$)	≤1.5 ns	1401.76 *7*	(5/2$^+$,7/2$^+$)
228.26 *9*	(7/2$^-$,9/2$^-$)	43 ns *3*	1471.39? *20*	
393.20 *7*	+		1538.82 *15*	(5/2,7/2$^+$)
399.13 *7*	(3/2$^-$,5/2)		1925.51 *13*	(5/2$^+$,7/2$^+$)
427.27 *8*	(7/2$^+$)	1.6 ns *1*	2088.18 *15*	(5/2$^+$,7/2$^+$)
525.04 *9*	(3/2$^-$,5/2,7/2$^+$)		2424.18 *20*	(5/2$^+$,7/2$^+$,9/2$^+$)
570.88 *7*	(5/2,7/2)		2442.53 *25*	(5/2$^+$,7/2$^+$)
655.49 *10*	(5/2,7/2)		2605.79? *23*	
806.11 *6*	(5/2$^+$,7/2$^+$)		2676.52 *19*	(5/2$^+$,7/2$^+$)
866.48 *12*	(5/2,7/2,9/2)		2813.51 *19*	(5/2$^+$,7/2$^+$)
924.24 *11*	(5/2,7/2$^+$)		2862.4 *5*	(5/2$^+$,7/2$^+$,9/2$^+$)
1053.65 *6*	(5/2$^+$,7/2$^+$)		2869.6? *3*	
1086.73 *10*	(5/2,7/2$^+$)			

† From Adopted Levels.

‡ E(levels) are based on a least-squares fit to E(γ's) by the evaluators.

β^- radiations

E(decay)	E(level)	Iβ^-[†‡]	Log *ft*	Comments
(2.47×10^3 *4*)	2862.4	0.7 *2*	5.5 *1*	av Eβ=1010 *19*
(2.52×10^3 *4*)	2813.51	3.4 *4*	4.8 *1*	av Eβ=1033 *19* E(decay): 2610 *340* from $\beta\gamma$ (1982Al29).
(2.65×10^3 *4*)	2676.52	1.3 *2*	5.3 *1*	av Eβ=1097 *19*
(2.89×10^3 *4*)	2442.53	1.4 *3*	5.4 *1*	av Eβ=1206 *19*
(2.91×10^3 *4*)	2424.18	1.1 *1*	5.6 *1*	av Eβ=1215 *19*
(3.24×10^3 *4*)	2088.18	7.8 *8*	4.9 *1*	av Eβ=1372 *19*
(3.40×10^3 *4*)	1925.51	6.7 *5*	5.1 *1*	av Eβ=1449 *19*
(3.79×10^3 *4*)	1538.82	1.5 *2*	5.9 *1*	av Eβ=1631 *19*
(3.93×10^3 *4*)	1401.76	10.5 *7*	5.1 *1*	av Eβ=1696 *19* E(decay): 3930 *150* from $\beta\gamma$ (1982Al29).
(4.05×10^3 *4*)	1278.80	5.4 *4*	5.5 *1*	av Eβ=1755 *19* E(decay): 4010 *200* from $\beta\gamma$ (1982Al29).
(4.20×10^3 *4*)	1130.80	1.2 *2*	6.2 *1*	av Eβ=1825 *19*
(4.24×10^3 *4*)	1086.73	1.8 *2*	6.0 *1*	av Eβ=1846 *19*

Continued on next page (footnotes at end of table)

^{119}Ag β^- decay (2.1 s) 1975Ka09 (continued)

β^- radiations (continued)

E(decay)	E(level)	Iβ^- [†‡]	Log *ft*	Comments
(4.28×10^3 *4*)	1053.65	38 *2*	4.7 *1*	av Eβ=1861 *19* E(decay): 4300 *50* from $\beta\gamma$ (1982Al29).
(4.41×10^3 *4*)	924.24	1.6 *2*	6.2 *1*	av Eβ=1923 *19*
(4.46×10^3 *4*)	866.48	1.0 *2*	6.4 *1*	av Eβ=1950 *19*
(4.52×10^3 *4*)	806.11	7.0 *7*	5.6 *1*	av Eβ=1979 *19*
(4.67×10^3 *4*)	655.49	3.5 *6*	5.9 *1*	av Eβ=2051 *19*
(4.76×10^3 *4*)	570.88	1.3 *4*	6.4 *2*	av Eβ=2091 *19*
(4.80×10^3 *4*)	525.04	0.5 *4*	6.8 *4*	av Eβ=2113 *19*
(4.90×10^3 *4*)	427.27	≤2	≥6.3	av Eβ=2159 *19*
(4.93×10^3 *4*)	399.13	≤3	≥6.1	av Eβ=2172 *19*
(5.10×10^3 *4*)	228.26	≤3	≥6.2	av Eβ=2254 *19*
(5.12×10^3 *4*)	213.90	4 *3*	6.0 *4*	av Eβ=2260 *19*

† From intensity balance of transitions. Values are tentative because unobserved γ's from higher levels (>2.9 MeV) and unplaced γ's could affect intensity balances, and therefore Iβ values.
‡ Absolute intensity per 100 decays.

$\gamma(^{119}Cd)$

Iγ normalization: From Σ [Ti(to gs) + Ti(to 27) + Ti(to 146)]=100%, assuming no β^- feedings to the ground state ($J^\pi=3/2^+$), to the 27-keV level ($J^\pi=3/2^+$), and 146-keV level ($J^\pi=11/2^-$), and excluding from the sum the total γ-ray intensity of the 27-keV transition. Other value: 0.107 *22* (1975Ka09).

E_γ	I_γ[‡@]	E_i(level)	J_i^π	E_f	J_f^π	Mult.[#]	α[†]	$I_{(\gamma+ce)}$[@]	Comments
14.3	<0.9	228.26	$(7/2^-,9/2^-)$	213.90	$(9/2^-)$	[M1]	18.7		ce(L)/(γ+ce)=0.773 *7*; ce(M)/(γ+ce)=0.149 *3*; ce(N+)/(γ+ce)=0.0278 *6* ce(N)/(γ+ce)=0.0264 *5*; ce(O)/(γ+ce)=0.00147 *3* $I_{(\gamma+ce)}$: from $\gamma\gamma$ (1975Ka09). I_γ: possible small E2 admixture (1975Ka09).
26.9 *1*	18.5 *7*	27.00	$3/2^+$	0	$1/2^+$	M1	21.2	410 *10*	α(K)=18.4; α(L)= 2.337; α(M)= 0.449 α(K)exp=19 *5* α(K)exp: from I(K x ray)/Iγ. $I_{(\gamma+ce)}$: from intensity balance. I_γ: Deduced by evaluators from γ-ray transition intensity balance at 27-keV level using Ti(26.9γ)=410 *10* (from γ rays feeding the 27-keV level) and assuming no β^- feeding to this level. Thus Iγ(26.9γ)= (410 *10*)/1 + α = (410 *10*)/1 + (21.2 *6*) = 18.5 *7*. Other value: 21 *4* (experimental, 1975Ka09). Mult.: α(K)exp is consistent with α(K)(M1) and also α(K)(E2). But, E2 is ruled out since α(E2) leads to a larger (and inconsistent) value for I(γ+ce) due to the large L-shell conversion for an E2 multipolarity.
67.4 *1*	53 *9*	213.90	$(9/2^-)$	146.53	$(11/2^-)$	M1	1.428		α(K)exp=1.04 *16* α(K)=1.237 *19*; α(L)=0.1560 *23*; α(M)=0.0300 *5*; α(N+..)=0.00564 *9* α(N)=0.00534 *8*; α(O)=0.000302 *5*
81.7 *1*	19.4 *21*	228.26	$(7/2^-,9/2^-)$	146.53	$(11/2^-)$	E2	3.07		α(K)exp=2.20 *32* α(K)=2.17 *4*; α(L)=0.730 *11*; α(M)=0.1456 *22*; α(N+..)=0.0244 *4* α(N)=0.0240 *4*; α(O)=0.000388 *6*
131		525.04	$(3/2^-,5/2,7/2^+)$	393.20	$^+$				I_γ: very weak.
150.7 *2*	2.2 *6*	806.11	$(5/2^+,7/2^+)$	655.49	(5/2,7/2)				
[x]173.4 *3*	2.5 *6*								
177		570.88	(5/2,7/2)	393.20	$^+$				I_γ: very weak.
192.0 *5*	0.5 *3*	1245.57?		1053.65	$(5/2^+,7/2^+)$				
199.0 *1*	61 *7*	427.27	$(7/2^+)$	228.26	$(7/2^-,9/2^-)$	E1	0.0237		α(K)exp=0.022 *7* α(K)=0.0207 *3*; α(L)=0.00248 *4*; α(M)=0.000474 *7*; α(N+..)=8.81×10^{-5} *13* α(N)=8.36×10^{-5} *12*; α(O)=4.48×10^{-6} *7* I_γ: other: 55 *9* (1988RuZW).

$^{119}_{48}Cd_{71}$-3

γ(^{119}Cd) (continued)

E_γ	I_γ [‡@]	E_i(level)	J^π_i	E_f	J^π_f	Mult.[#]	α [†]	Comments
213.4 *1*	67 *7*	427.27	(7/2$^+$)	213.90	(9/2$^-$)	E1	0.0195	α(K)exp=0.012 *3* α(K)=0.01701 *24*; α(L)=0.00204 *3*; α(M)=0.000390 *6*; α(N+..)=7.25×10^{-5} *11* α(N)=6.88×10^{-5} *10*; α(O)=3.71×10^{-6} *6*
224.8 *3*	1.0 *4*	1278.80	(5/2$^+$,7/2$^+$)	1053.65	(5/2$^+$,7/2$^+$)			
235.3 *2*	2.1 *6*	806.11	(5/2$^+$,7/2$^+$)	570.88	(5/2,7/2)			
247.6 *1*	6.5 *10*	1053.65	(5/2$^+$,7/2$^+$)	806.11	(5/2$^+$,7/2$^+$)			
262.7 *2*	1.0 *3*	655.49	(5/2,7/2)	393.20	$^+$			
271.1 *2*	3.1 *9*	1401.76	(5/2$^+$,7/2$^+$)	1130.80	(5/2,7/2$^+$)			
280.6 *1*	4.5 *8*	1086.73	(5/2,7/2$^+$)	806.11	(5/2$^+$,7/2$^+$)			
325.0 *2*	1.4 *3*	1130.80	(5/2,7/2$^+$)	806.11	(5/2$^+$,7/2$^+$)			
366.2 *1*	93 *5*	393.20	$^+$	27.00	3/2$^+$	M1,E2	0.0157 *14*	α(K)exp=0.011 *3* α(K)=0.0135 *11*; α(L)=0.0018 *3*; α(M)=0.00034 *6*; α(N+..)=6.3×10^{-5} *9* α(N)=6.0×10^{-5} *9*; α(O)=3.12×10^{-6} *12*
^{x}370.6 *1*	26.3 *19*							
372.3 *1*	11.8 *11*	399.13	(3/2$^-$,5/2)	27.00	3/2$^+$			
379.0 *1*	2.1 *4*	806.11	(5/2$^+$,7/2$^+$)	427.27	(7/2$^+$)			
393.2 *2*	6.5 *9*	393.20	$^+$	0	1/2$^+$			
399.1 *2*	83 *13*	399.13	(3/2$^-$,5/2)	0	1/2$^+$	[E1]	0.00369 *6*	α(K)exp=0.006 *+4−2* α=0.00369 *6*; α(K)=0.00323 *5*; α(L)=0.000382 *6*; α(M)=7.29×10^{-5} *11*; α(N+..)=1.366×10^{-5} *20* α(N)=1.293×10^{-5} *19*; α(O)=7.29×10^{-7} *11* α(K)exp: given for 399.1γ+400.1γ. Mult.: if 400.1γ is E2 from decay scheme, the combined α(K)exp suggests the 399.1γ to be E1, or possibly M1,E2.
400.1 *2*	12.0 *18*	427.27	(7/2$^+$)	27.00	3/2$^+$	[E2]	0.01294	α(K)exp=0.006 *+4−2* α(K)=0.01108 *16*; α(L)=0.001514 *22*; α(M)=0.000292 *5*; α(N+..)=5.36×10^{-5} *8* α(N)=5.12×10^{-5} *8*; α(O)=2.48×10^{-6} *4* α(K)exp: given for 399.1γ+400.1γ. Mult.: from decay scheme.
407.1 *1*	21.2 *18*	806.11	(5/2$^+$,7/2$^+$)	399.13	(3/2$^-$,5/2)			
412.9 *1*	9.2 *11*	806.11	(5/2$^+$,7/2$^+$)	393.20	$^+$			
431.9 *2*	2.7 *4*	1086.73	(5/2,7/2$^+$)	655.49	(5/2,7/2)			
439.2 *1*	8.1 *8*	866.48	(5/2,7/2,9/2)	427.27	(7/2$^+$)			
472.9 *1*	4.8 *6*	1278.80	(5/2$^+$,7/2$^+$)	806.11	(5/2$^+$,7/2$^+$)			
482.7 *1*	17.7 *13*	1053.65	(5/2$^+$,7/2$^+$)	570.88	(5/2,7/2)			
497.9 *1*	29.5 *21*	525.04	(3/2$^-$,5/2,7/2$^+$)	27.00	3/2$^+$			
517.5[&] *3*	0.8 *2*	1086.73	(5/2,7/2$^+$)	570.88	(5/2,7/2)			
524.5 *3*	2.5 *5*	924.24	(5/2,7/2$^+$)	399.13	(3/2$^-$,5/2)			
528.9 *3*	4.0 *8*	1053.65	(5/2$^+$,7/2$^+$)	525.04	(3/2$^-$,5/2,7/2$^+$)			
531.1 *1*	7.1 *9*	924.24	(5/2,7/2$^+$)	393.20	$^+$			

From ENSDF

γ(^{119}Cd) (continued)

E_γ	I_γ ‡@	E_i(level)	J^π_i	E_f	J^π_f	Comments
543.9 *1*	29.0 *20*	570.88	(5/2,7/2)	27.00	3/2$^+$	
561.2 *2*	2.2 *4*	1086.73	(5/2,7/2$^+$)	525.04	(3/2$^-$,5/2,7/2$^+$)	
570.8 *1*	5.8 *9*	570.88	(5/2,7/2)	0	1/2$^+$	
578.0 *2*	3.3 *6*	806.11	(5/2$^+$,7/2$^+$)	228.26	(7/2$^-$,9/2$^-$)	
595.7 *1*	6.4 *6*	1401.76	(5/2$^+$,7/2$^+$)	806.11	(5/2$^+$,7/2$^+$)	
604.7 *3*	2.6 *4*	1471.39?		866.48	(5/2,7/2,9/2)	
626.4 *2*	100	1053.65	(5/2$^+$,7/2$^+$)	427.27	(7/2$^+$)	α(K)exp<0.004 α(K)exp: given for 626.4γ+628.2γ. I_γ: 13.9 *16* % (1988RuZW).
628.2 *2*	21 *3*	655.49	(5/2,7/2)	27.00	3/2$^+$	α(K)exp<0.004 α(K)exp: given for 626.4γ+628.2γ.
638.0 *5*	2.2 *5*	866.48	(5/2,7/2,9/2)	228.26	(7/2$^-$,9/2$^-$)	
654.4 *2*	32 *5*	1053.65	(5/2$^+$,7/2$^+$)	399.13	(3/2$^-$,5/2)	
656.1 *2*	14.3 *22*	655.49	(5/2,7/2)	0	1/2$^+$	
660.4 *1*	54 *5*	1053.65	(5/2$^+$,7/2$^+$)	393.20	$^+$	
693.4 *2*	4.1 *7*	1086.73	(5/2,7/2$^+$)	393.20	$^+$	
720.4 *1*	4.1 *8*	1245.57?		525.04	(3/2$^-$,5/2,7/2$^+$)	
^{x}727.1 *2*	2.5 *5*					
731.0 *4*	1.2 *4*	1130.80	(5/2,7/2$^+$)	399.13	(3/2$^-$,5/2)	
732.7 *4*	2.2 *5*	1538.82	(5/2,7/2$^+$)	806.11	(5/2$^+$,7/2$^+$)	
737.6 *1*	10.0 *12*	1130.80	(5/2,7/2$^+$)	393.20	$^+$	
746.3 *4*	4.4 *17*	1401.76	(5/2$^+$,7/2$^+$)	655.49	(5/2,7/2)	
753.6 *2*	5.4 *13*	1278.80	(5/2$^+$,7/2$^+$)	525.04	(3/2$^-$,5/2,7/2$^+$)	
779.2 *1*	42 *3*	806.11	(5/2$^+$,7/2$^+$)	27.00	3/2$^+$	
806.2 *2*	1.1 *4*	806.11	(5/2$^+$,7/2$^+$)	0	1/2$^+$	
825.4 *1*	20.2 *16*	1053.65	(5/2$^+$,7/2$^+$)	228.26	(7/2$^-$,9/2$^-$)	
830.8 *2*	4.9 *6*	1401.76	(5/2$^+$,7/2$^+$)	570.88	(5/2,7/2)	
846.9 *2*	4.0 *5*	1245.57?		399.13	(3/2$^-$,5/2)	
851.4 *1*	18.1 *15*	1278.80	(5/2$^+$,7/2$^+$)	427.27	(7/2$^+$)	
872.3 *4*	3.1 *8*	1925.51	(5/2$^+$,7/2$^+$)	1053.65	(5/2$^+$,7/2$^+$)	
877.0 *2*	1.9 *6*	1401.76	(5/2$^+$,7/2$^+$)	525.04	(3/2$^-$,5/2,7/2$^+$)	
885.4 *3*	4.3 *8*	1278.80	(5/2$^+$,7/2$^+$)	393.20	$^+$	
897.5 *5*	2.9 *12*	924.24	(5/2,7/2$^+$)	27.00	3/2$^+$	
^{x}926.9 *3*	3.0 *8*					
^{x}950.4 *5*	3.1 *12*					
974.5 *2*	4.6 *9*	1401.76	(5/2$^+$,7/2$^+$)	427.27	(7/2$^+$)	
1002.6 *2*	5.3 *8*	1401.76	(5/2$^+$,7/2$^+$)	399.13	(3/2$^-$,5/2)	
1008.5 *1*	21.6 *20*	1401.76	(5/2$^+$,7/2$^+$)	393.20	$^+$	
1014.0 *3*	2.3 *6*	1538.82	(5/2,7/2$^+$)	525.04	(3/2$^-$,5/2,7/2$^+$)	
1026.5 *1*	58 *5*	1053.65	(5/2$^+$,7/2$^+$)	27.00	3/2$^+$	
1044.3 *3*	0.8 *4*	1471.39?		427.27	(7/2$^+$)	
1053.8 *1*	4.2 *6*	1053.65	(5/2$^+$,7/2$^+$)	0	1/2$^+$	
^{x}1064.8 *3*	3.8 *9*					

$^{119}_{48}$Cd$_{71}$-5

γ(^{119}Cd) (continued)

E_γ	I_γ[‡@]	E_i(level)	J^π_i	E_f	J^π_f
1111.0 *3*	2.2 *5*	1538.82	(5/2,7/2$^+$)	427.27	(7/2$^+$)
1140.2 *3*	0.9 *3*	1538.82	(5/2,7/2$^+$)	399.13	(3/2$^-$,5/2)
1145.1 *3*	1.9 *4*	1538.82	(5/2,7/2$^+$)	393.20	$^+$
1173.3 *2*	10.0 *14*	1401.76	(5/2$^+$,7/2$^+$)	228.26	(7/2$^-$,9/2$^-$)
1244.6[&] *3*	2.2 *4*	1471.39?		228.26	(7/2$^-$,9/2$^-$)
1251.9 *2*	7.7 *14*	1278.80	(5/2$^+$,7/2$^+$)	27.00	3/2$^+$
1257.5 *3*	2.0 *4*	1471.39?		213.90	(9/2$^-$)
1274.7 *3*	3.0 *9*	2676.52	(5/2$^+$,7/2$^+$)	1401.76	(5/2$^+$,7/2$^+$)
[x]1333.2 *2*	4.6 *8*				
1374.8 *2*	12.3 *16*	1401.76	(5/2$^+$,7/2$^+$)	27.00	3/2$^+$
1401.6 *2*	8.3 *7*	1401.76	(5/2$^+$,7/2$^+$)	0	1/2$^+$
[x]1426.5 *3*	1.3 *5*				
1512.7 *5*	2.0 *4*	1538.82	(5/2,7/2$^+$)	27.00	3/2$^+$
1526.6 *2*	13.1 *15*	1925.51	(5/2$^+$,7/2$^+$)	399.13	(3/2$^-$,5/2)
1532.7 *5*	3.0 *9*	1925.51	(5/2$^+$,7/2$^+$)	393.20	$^+$
1689.0 *2*	8.1 *11*	2088.18	(5/2$^+$,7/2$^+$)	399.13	(3/2$^-$,5/2)
1695.5 *3*	5.5 *10*	2088.18	(5/2$^+$,7/2$^+$)	393.20	$^+$
1800.2 *3*	4.0 *10*	2605.79?		806.11	(5/2$^+$,7/2$^+$)
[x]1824.7 *4*	4.5 *17*				
[x]1851.9 *3*	5.8 *12*				
1898.3 *2*	23.0 *20*	1925.51	(5/2$^+$,7/2$^+$)	27.00	3/2$^+$
1925.0 *3*	8.7 *13*	1925.51	(5/2$^+$,7/2$^+$)	0	1/2$^+$
[x]1970.3 *4*	4.0 *14*				
1996.9 *2*	6.3 *7*	2424.18	(5/2$^+$,7/2$^+$,9/2$^+$)	427.27	(7/2$^+$)
[x]2028.2 *2*	10.0 *9*				
2043.6 *5*	1.0 *4*	2442.53	(5/2$^+$,7/2$^+$)	399.13	(3/2$^-$,5/2)
2050.1 *5*	1.0 *4*	2442.53	(5/2$^+$,7/2$^+$)	393.20	$^+$
2060.7 *5*	40.5 *50*	2088.18	(5/2$^+$,7/2$^+$)	27.00	3/2$^+$
2087.9 *3*	5.8 *12*	2088.18	(5/2$^+$,7/2$^+$)	0	1/2$^+$
2151.7 *4*	4.1 *9*	2676.52	(5/2$^+$,7/2$^+$)	525.04	(3/2$^-$,5/2,7/2$^+$)
2195.9 *4*	1.9 *5*	2424.18	(5/2$^+$,7/2$^+$,9/2$^+$)	228.26	(7/2$^-$,9/2$^-$)
2205.3 *5*	1.2 *4*	2605.79?		399.13	(3/2$^-$,5/2)
2212.4 *5*	1.1 *5*	2605.79?		393.20	$^+$
[x]2302.0 *5*	3.5 *16*				
[x]2334.7 *6*	2.0 *5*				
2344.2 *5*	1.5 *5*	2869.6?		525.04	(3/2$^-$,5/2,7/2$^+$)
[x]2376.1 *5*	3.2 *9*				
2386.2 *5*	4.0 *9*	2813.51	(5/2$^+$,7/2$^+$)	427.27	(7/2$^+$)
2391.9 *7*	1.9 *7*	2605.79?		213.90	(9/2$^-$)
2415.2 *6*	3.0 *15*	2442.53	(5/2$^+$,7/2$^+$)	27.00	3/2$^+$
2435.4 *7*	3.1 *12*	2862.4	(5/2$^+$,7/2$^+$,9/2$^+$)	427.27	(7/2$^+$)
2442.0 *4*	6.0 *15*	2442.53	(5/2$^+$,7/2$^+$)	0	1/2$^+$
2470.9 *4*	8.7 *21*	2869.6?		399.13	(3/2$^-$,5/2)

$\gamma(^{119}Cd)$ (continued)

E_γ	I_γ [‡@]	E_i(level)	J^π_i	E_f	J^π_f
[x]2529.4 *5*	4.9 *19*				
[x]2554.2 *15*	1.0 *7*				
[x]2563.8 *6*	1.2 *6*				
[x]2571.2 *5*	1.9 *6*				
2633.9 *5*	2.0 *5*	2862.4	($5/2^+$,$7/2^+$,$9/2^+$)	228.26	($7/2^-$,$9/2^-$)
2649.5 *7*	1.9 *6*	2676.52	($5/2^+$,$7/2^+$)	27.00	$3/2^+$
2655.5 *4*	4.0 *8*	2869.6?		213.90	($9/2^-$)
2676.4 *3*	1.1 *6*	2676.52	($5/2^+$,$7/2^+$)	0	$1/2^+$
[x]2706.9 *8*	2.4 *16*				
[x]2722.1 *5*	4.0 *15*				
[x]2732.4 *7*	1.6 *9*				
[x]2757.2 *3*	5.7 *9*				
[x]2768.2 *4*	2.7 *7*				
2786.4 *2*	20.2 *20*	2813.51	($5/2^+$,$7/2^+$)	27.00	$3/2^+$
2814.4 *7*	1.7 *8*	2813.51	($5/2^+$,$7/2^+$)	0	$1/2^+$
[x]2928.6 *7*	0.9 *4*				
[x]2938.4 *3*	4.7 *6*				
[x]2951.8 *3*	13.7 *13*				

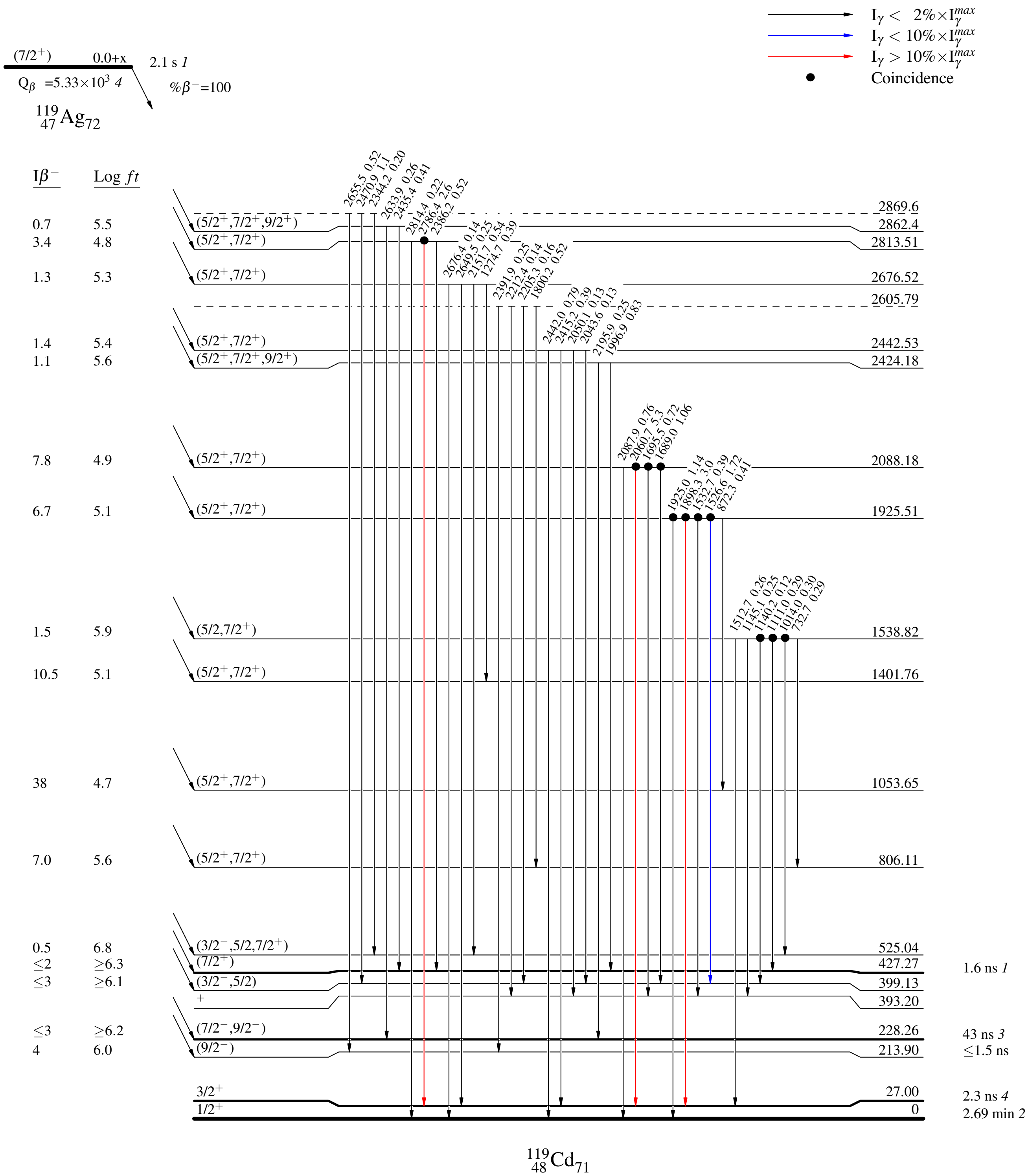
[†] Additional information 2.
[‡] From 1975Ka09.
[#] From α(K)exp from Ice(K)/Iγ (1975Ka09), unless otherwise noted.
[@] For absolute intensity per 100 decays, multiply by 0.131 *5*.
[&] Placement of transition in the level scheme is uncertain.
[x] γ ray not placed in level scheme.

$^{119}_{48}Cd_{71}$-7

^{119}Ag β^- decay (2.1 s) 1975Ka09

Decay Scheme

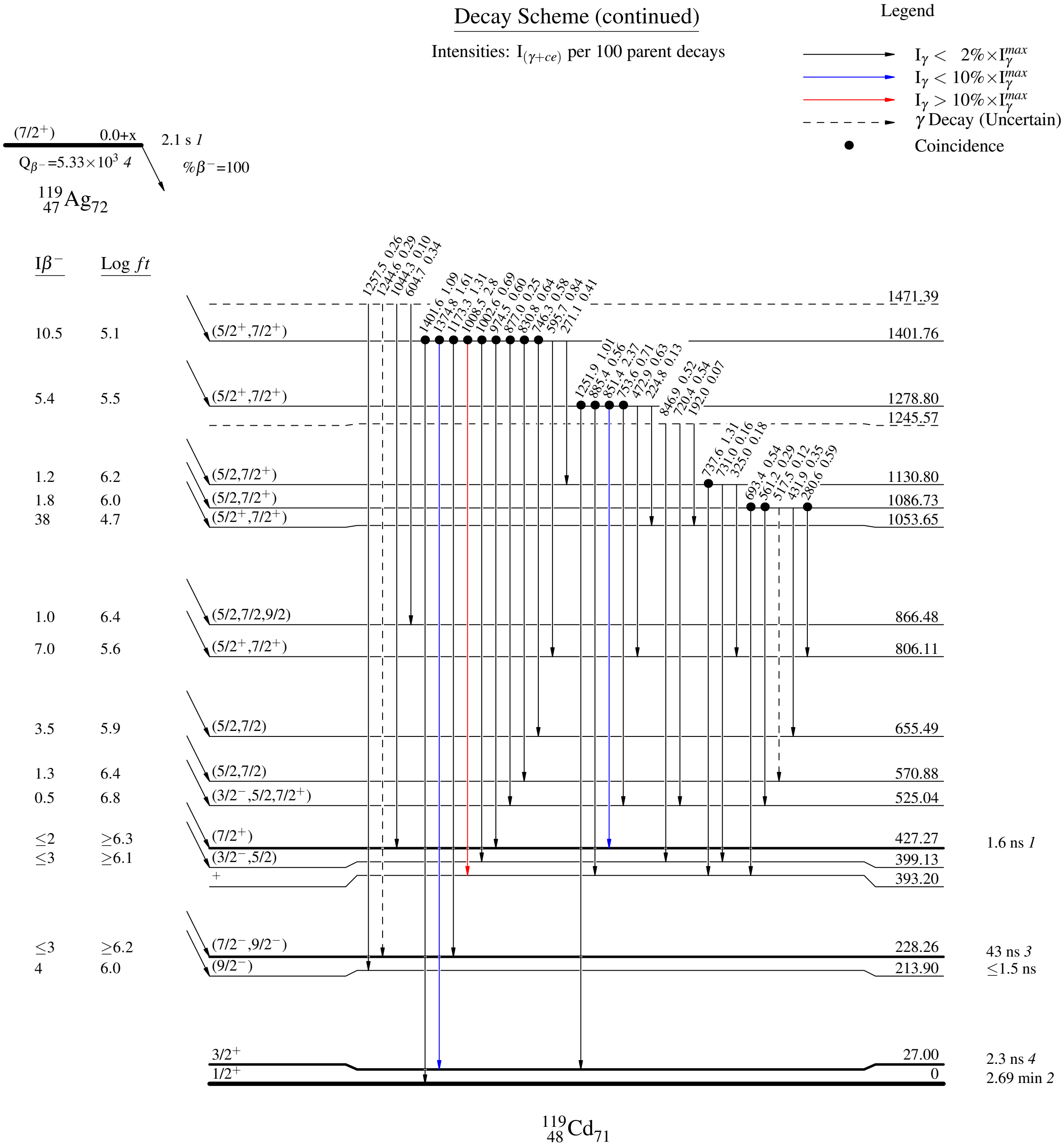
Intensities: $I_{(\gamma+ce)}$ per 100 parent decays



^{119}Ag β^- decay (2.1 s) 1975Ka09

Decay Scheme (continued)

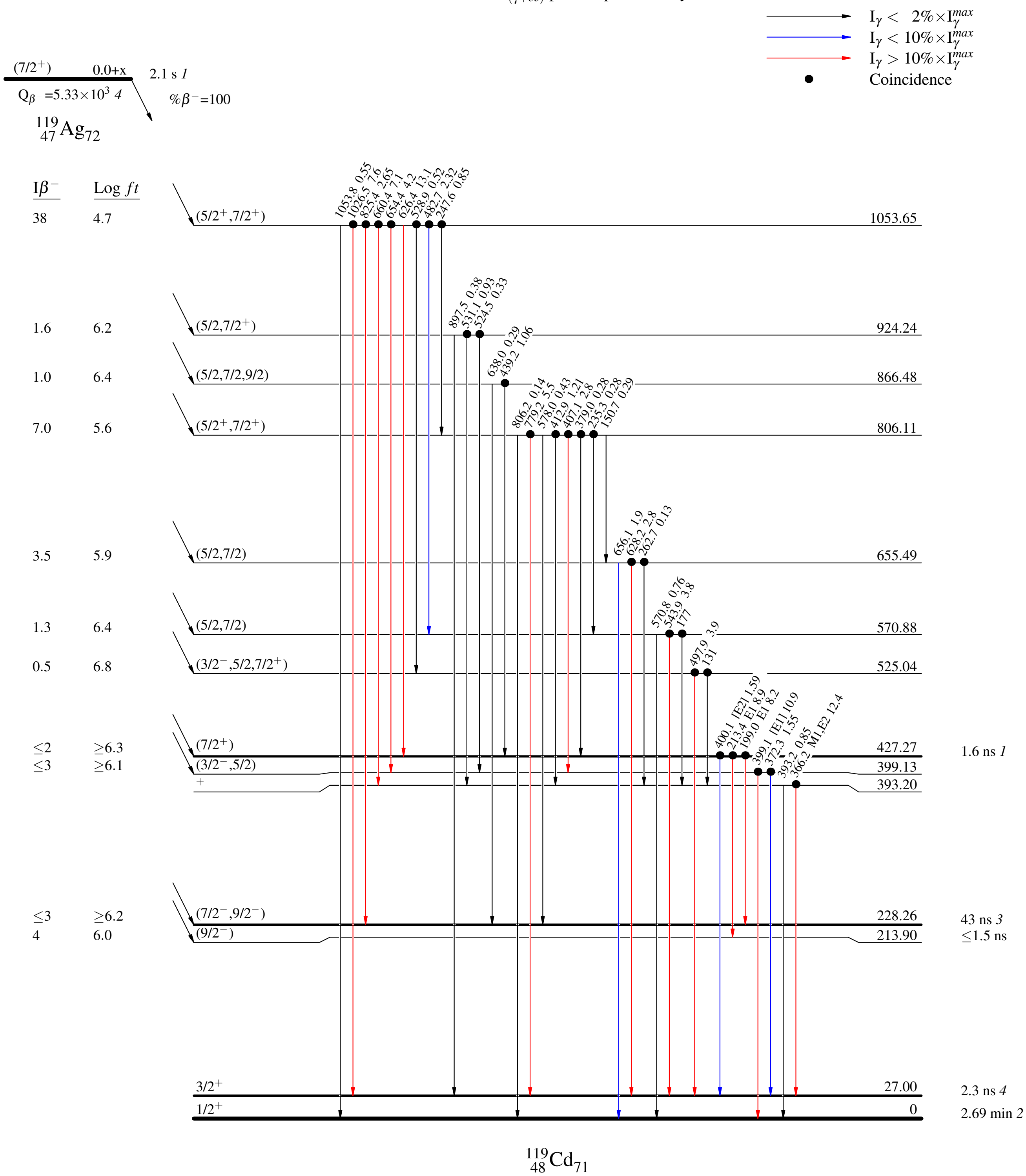
Intensities: $I_{(\gamma+ce)}$ per 100 parent decays



^{119}Ag β^- decay (2.1 s) 1975Ka09

Decay Scheme (continued)

Intensities: $I_{(\gamma+ce)}$ per 100 parent decays



^{119}Ag β^- decay (2.1 s) 1975Ka09

Decay Scheme (continued)

Intensities: $I_{(\gamma+ce)}$ per 100 parent decays