^{101}Cd ε decay 1980Ka05

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	Jean Blachot	ENSDF	1-Jul-2006

Parent: ^{101}Cd: E=0; J$^\pi$=(5/2$^+$); $T_{1/2}$=1.36 min *5*; Q(ε)=5.48×10^3 *11*; %ε+%β^+ decay=100.0

Activity: Sn(p,3pxn) on-line isotopic separation (1980Ka05,1970Hn03).

J$^\pi$ from log *ft* for levels >1859 have not been adopted by the evaluator.

Measured: γ, $\gamma\gamma$, $\gamma\gamma$(t), ce, Ge(Li), Si(Li) detectors. 1980Ka05 supersedes 1970Hn03 which was done at the same facility (ISOLDE).

^{101}Ag Levels

E(level)	J$^\pi$ †	$T_{1/2}$	E(level)	J$^\pi$ †
0	9/2$^+$	11.1 min *3*	2130.0 *3*	(5/2$^+$,7/2$^+$)
98.1 *2*	7/2$^+$		2153.5 *6*	
274.0 *2*	1/2$^-$	3.10 s	2154.9 *4*	
750.4 *3*	(3/2$^-$)		2243.5 *4*	
797.4 *3*	(5/2$^-$)		2269.9 *6*	
961.0 *4*	(3/2,5/2)$^-$		2308.0 *6*	
1022.6 *2*	(5/2,7/2)$^+$		2386.7 *6*	
1196.0 *4*	(5/2$^+$,7/2)		2391.2 *3*	(5/2$^+$,7/2$^+$)
1285.2 *3*	(3/2$^+$)		2429.7 *3*	(3/2$^+$,5/2$^+$,7/2$^+$)
1301.1 *2*	(5/2$^+$,7/2$^+$)		2455.0 *5*	(3/2$^+$,5/2$^+$,7/2$^+$)
1324.6 *4*	(5/2$^+$,7/2)		2679.6 *4*	(3/2$^+$,5/2$^+$,7/2$^+$)
1357.4 *3*	(3/2$^+$,5/2$^+$,7/2$^+$)		2787.7 *4*	(3/2$^+$,5/2$^+$,7/2$^+$)
1417.5 *2*	(5/2$^+$,7/2$^+$)		2875.7 *3*	(5/2$^+$,7/2$^+$)
1473.8 *5*	(3/2,5/2,7/2)		2909.1 *6*	(3/2$^+$,5/2$^+$,7/2$^+$)
1502.6 *5*			2940.4 *4*	(5/2$^+$)
1599.1 *6*	(1/2 to 7/2)$^+$		2943.5 *5*	(3/2$^+$,5/2$^+$,7/2$^+$)
1690.9 *3*	(5/2,7/2)$^+$		3006.1 *6*	(3/2$^+$,5/2$^+$,7/2$^+$)
1783.4 *4*	(5/2$^+$,7/2$^+$)		3162.4 *4*	(3/2$^+$,5/2$^+$,7/2$^+$)
1794.8 *3*	(3/2$^+$,5/2$^+$,7/2$^+$)		3229.2 *6*	(3/2$^+$,5/2$^+$,7/2$^+$)
1820.6 *3*	(5/2$^+$,7/2$^+$)		3259.1 *6*	(3/2$^+$,5/2$^+$,7/2$^+$)
1859.7 *4*	(5/2$^+$,7/2$^+$)		3380.0 *6*	(3/2$^+$,5/2$^+$,7/2$^+$)
1894.7 *6*	(3/2$^+$,5/2$^+$,7/2$^+$)		3400.7 *8*	(3/2$^+$,5/2$^+$,7/2$^+$)
1990.2 *3*	(5/2$^+$,7/2$^+$)		3430.0 *6*	(3/2$^+$,5/2$^+$,7/2$^+$)
2059.0 *3*	(5/2$^+$,7/2$^+$)			

† From Adopted Levels for levels below 1820.6. From log *ft* and γ decay for the rest.

ε,β^+ radiations

E(decay)	E(level)	Iβ^+ †	Iε †	Log *ft*	I($\varepsilon+\beta^+$) †	Comments
(2.05×10^3 *11*)	3430.0		0.4 *5*	5.3 *6*	0.4 *5*	
(2.08×10^3 *11*)	3400.7	0.087 *15*	0.51 *9*	5.14 *8*	0.6 *1*	av Eβ= 435.4 *4*; εK= 0.7388; εL= 0.09368; εM+=0.023175
(2.10×10^3 *11*)	3380.0	0.061 *16*	0.34 *9*	5.33 *11*	0.4 *1*	av Eβ= 444.5 *3*; εK= 0.7310; εL= 0.09267; εM+=0.022925
(2.22×10^3 *11*)	3259.1	0.105 *21*	0.39 *8*	5.31 *9*	0.5 *1*	av Eβ= 497.8 *3*; εK= 0.6820; εL= 0.08635; εM+=0.021357
(2.25×10^3 *11*)	3229.2	0.045 *23*	0.15 *8*	5.73 *22*	0.2 *1*	av Eβ= 511.0 *3*; εK= 0.6691; εL= 0.08469; εM+=0.020945
(2.32×10^3 *11*)	3162.4	0.16 *3*	0.44 *8*	5.30 *8*	0.6 *1*	av Eβ= 540.68 *18*; εK= 0.6394; εL= 0.08089; εM+=0.020003

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^{101}Cd ε decay 1980Ka05 (continued)

ε,β$^+$ radiations (continued)

E(decay)	E(level)	Iβ$^+$ †	Iε†	Log ft	I(ε+β$^+$)†	Comments
(2.47×10^3 11)	3006.1	0.14 4	0.26 7	5.59 11	0.4 1	av Eβ= 610.4 3; εK= 0.5678; εL= 0.07173; εM+=0.017736
(2.54×10^3 11)	2943.5	0.68 4	1.12 7	4.98 3	1.8 1	av Eβ= 638.39 23; εK= 0.5390; εL= 0.06807; εM+=0.016830
(2.54×10^3 11)	2940.4	0.79 19	1.3 4	4.91 11	2.1 5	av Eβ= 639.78 18; εK= 0.5376; εL= 0.06789; εM+=0.016785
(2.57×10^3 11)	2909.1	0.20 4	0.30 6	5.56 9	0.5 1	av Eβ= 653.8 3; εK= 0.5234; εL= 0.06608; εM+=0.016337
(2.60×10^3 11)	2875.7	0.62 21	0.9 3	5.11 15	1.5 5	av Eβ= 668.84 14; εK= 0.5084; εL= 0.06417; εM+=0.015864
(2.69×10^3 11)	2787.7	1.19 23	1.4 3	4.93 9	2.6 5	av Eβ= 708.47 18; εK= 0.4698; εL= 0.05926; εM+=0.014649
(2.80×10^3 11)	2679.6	0.36 5	0.34 5	5.58 7	0.7 1	av Eβ= 757.34 19; εK= 0.4247; εL= 0.05354; εM+=0.013234
(3.03×10^3 11)	2455.0	0.79 6	0.51 4	5.48 4	1.3 1	av Eβ= 859.46 23; εK= 0.3417; εL= 0.04302; εM+=0.010633
(3.05×10^3 11)	2429.7	2.76 19	1.74 12	4.96 4	4.5 3	av Eβ= 871.01 14; εK= 0.3333; εL= 0.04196; εM+=0.010370
(3.09×10^3 11)	2391.2	1.1 4	0.67 19	5.38 13	1.8 5	av Eβ= 888.60 14; εK= 0.3209; εL= 0.04039; εM+=0.009982
(3.09×10^3 11)	2386.7	0.25 7	0.15 4	6.04 11	0.4 1	av Eβ= 890.7 3; εK= 0.3195; εL= 0.04021; εM+=0.009938
(3.17×10^3 11)	2308.0	0.39 7	0.21 4	5.92 8	0.6 1	av Eβ= 926.7 3; εK= 0.2957; εL= 0.03720; εM+=0.009192
(3.21×10^3 11)	2269.9	0.27 7	0.13 4	6.12 11	0.4 1	av Eβ= 944.2 3; εK= 0.2848; εL= 0.03582; εM+=0.008852
(3.24×10^3 11)	2243.5	0.41 7	0.19 4	5.96 8	0.6 1	av Eβ= 956.29 19; εK= 0.2775; εL= 0.03490; εM+=0.008624
(3.33×10^3 11)	2154.9	0.5 4	0.21 15	6.0 4	0.7 5	av Eβ= 997.04 19; εK= 0.2544; εL= 0.03198; εM+=0.007903
(3.33×10^3 11)	2153.5	0.42 5	0.176 18	6.03 5	0.6	av Eβ= 997.7 3; εK= 0.2540; εL= 0.03194; εM+=0.007892
(3.35×10^3 11)	2130.0	5.6 3	2.27 12	4.92 3	7.9 4	av Eβ= 1008.51 14; εK= 0.24826; εL= 0.03121; εM+=0.007712
(3.42×10^3 11)	2059.0	1.83 22	0.67 8	5.47 6	2.5 3	av Eβ= 1041.25 14; εK= 0.23170; εL= 0.02912; εM+=0.007195
(3.49×10^3 11)	1990.2	1.5 3	0.50 10	5.62 9	2.0 4	av Eβ= 1073.04 14; εK= 0.21683; εL= 0.02724; εM+=0.006731
(3.59×10^3 11)	1894.7	1.4 4	0.41 12	5.72 13	1.8 5	av Eβ= 1117.3 3; εK= 0.19795; εL=0.024863; εM+=0.006143
(3.62×10^3 11)	1859.7	4.1 4	1.17 12	5.28 5	5.3 5	av Eβ= 1133.48 19; εK= 0.19151; εL=0.024052; εM+=0.005942
(3.66×10^3 11)	1820.6	6.21 24	1.69 7	5.131 23	7.9 3	av Eβ= 1151.63 14; εK= 0.18461; εL=0.023182; εM+=0.005727
(3.69×10^3 11)	1794.8	3.2 4	0.83 11	5.44 6	4.0 5	av Eβ= 1163.61 14; εK= 0.18021; εL=0.022628; εM+=0.005590
(3.70×10^3 11)	1783.4	0.79 8	0.206 21	6.05 5	1.0 1	av Eβ= 1168.91 19; εK= 0.17831; εL=0.022388; εM+=0.005531
(3.79×10^3 11)	1690.9	4.5 4	1.04 10	5.37 5	5.5 5	av Eβ= 1211.95 14; εK= 0.16372; εL=0.020551; εM+=0.005077
(3.88×10^3 11)	1599.1	1.5 5	0.31 9	5.91 13	1.8 5	av Eβ= 1254.7 3; εK= 0.15064; εL=0.018904; εM+=0.004670
(3.98×10^3 11)	1502.6	0.4 4		6.6 5	0.4 4	av Eβ= 1299.81 24; εK= 0.13824; εL=0.017342; εM+=0.004284
(4.01×10^3 11)	1473.8	0.4 5		6.6 6	0.4 5	av Eβ= 1313.28 24; εK= 0.13479; εL=0.016907;

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^{101}Cd ε decay 1980Ka05 (continued)

ε,β$^+$ radiations (continued)

E(decay)	E(level)	Iβ$^+$ †	Iε†	Log *ft*	I(ε+β$^+$)†	Comments
						εM+=0.004176
(4.06×10^3 *11*)	1417.5	5.5 *3*	0.96 *5*	5.47 *3*	6.5 *3*	av Eβ= 1339.63 *10*; εK= 0.12833; εL=0.016095; εM+=0.003976
(4.12×10^3 *11*)	1357.4	3.0 *5*	0.49 *7*	5.77 *7*	3.5 *5*	av Eβ= 1367.80 *14*; εK= 0.12186; εL=0.015281; εM+=0.003774
(4.16×10^3 *11*)	1324.6	2.0 *3*	0.32 *5*	5.97 *6*	2.3 *3*	av Eβ= 1383.18 *19*; εK= 0.11850; εL=0.014859; εM+=0.003670
(4.18×10^3 *11*)	1301.1	2.6 *5*	0.40 *7*	5.87 *8*	3.0 *5*	av Eβ= 1394.21 *10*; εK= 0.11616; εL=0.014565; εM+=0.003597
(4.19×10^3 *11*)	1285.2	1.6 *5*	0.24 *7*	6.10 *13*	1.8 *5*	av Eβ= 1401.67 *14*; εK= 0.11462; εL=0.014370; εM+=0.003549
(4.28×10^3 *11*)	1196.0	1.6 *5*		6.20 *14*	1.6 *5*	av Eβ= 1443.58 *19*; εK= 0.10640; εL=0.013336; εM+=0.003294
(4.46×10^3 *11*)	1022.6	3.9 *4*	0.47 *5*	5.86 *5*	4.4 *4*	av Eβ= 1525.25 *10*; εK= 0.09244; εL=0.011582; εM+=0.002860
(4.52×10^3 *11*)	961.0	1.4 *3*	0.16 *3*	6.33 *9*	1.6 *3*	av Eβ= 1554.31 *19*; εK= 0.08805; εL=0.011030; εM+=0.002724
(4.68×10^3 *11*)	797.4	1.09 *11*	0.108 *11*	6.55 *5*	1.2	av Eβ= 1631.64 *15*; εK= 0.07761; εL=0.009719
(5.21×10^3 *11*)	274.0	0.4 *8*		7.3 *9*	0.4 *8*	av Eβ= 1880.25 *10*; εK= 0.05335; εL=0.006675
(5.38×10^3 *11*)	98.1	8.6 *9*	0.50 *5*	6.00 *5*	9.1	av Eβ= 1964.17 *10*; εK= 0.04746; εL=0.005936

† Absolute intensity per 100 decays.

$\gamma(^{101}Ag)$

Iγ normalization: from ΣIγ to g.s.=100, and assumed no Iβ to g.s.

E_γ ‡	I_γ ‡#	E_i(level)	J_i^π	E_f	J_f^π	Mult.†	δ	α @	Comments
46.1 *2*	0.9	797.4	(5/2⁻)	750.4	(3/2⁻)	D			Mult.: From intensity balance at the 750 level, $\alpha\leq$1.8, Compared with theory of 1.44 for E1, 3.44 for M1, this suggests E1, The author suggest π(750)=−, which requires mult=M1,so d is adopted.
98.1 *2*	100	98.1	7/2⁺	0	9/2⁺	M1+E2	0.52 *18*	0.68 *13*	α(K)exp=0.56 *9*
163.3 *5*	0.3	961.0	(3/2,5/2)⁻	797.4	(5/2⁻)				
176.2 *2*	12.0	274.0	1/2⁻	98.1	7/2⁺	E3		1.11	α(K)= 0.776; α(L)= 0.274; α(M)= 0.0543; α(N+..)=0.00992 α(K)exp=0.805 *12*; K/L=2.4 *2* B(E3)(W.u.)=0.0581 *11*
210.4 *5*	0.3	961.0	(3/2,5/2)⁻	750.4	(3/2⁻)				
234.6 *5*	0.3	1196.0	(5/2⁺,7/2)	961.0	(3/2,5/2)⁻				
278.2 *5*	0.9	1301.1	(5/2⁺,7/2⁺)	1022.6	(5/2,7/2)⁺				
308.9 *5*	4.3	2130.0	(5/2⁺,7/2⁺)	1820.6	(5/2⁺,7/2⁺)				
334.7 *5*	1.3	2130.0	(5/2⁺,7/2⁺)	1794.8	(3/2⁺,5/2⁺,7/2⁺)				
366.3 *5*	0.3	1690.9	(5/2,7/2)⁺	1324.6	(5/2⁺,7/2)				
394.6 *5*	0.8	1417.5	(5/2⁺,7/2⁺)	1022.6	(5/2,7/2)⁺				
403.5 *5*	0.4	1820.6	(5/2⁺,7/2⁺)	1417.5	(5/2⁺,7/2⁺)				
405.2 *5*	1.3	1690.9	(5/2,7/2)⁺	1285.2	(3/2⁺)				
446.3 *7*	0.7	2875.7	(5/2⁺,7/2⁺)	2429.7	(3/2⁺,5/2⁺,7/2⁺)				
476.5 *2*	3.8	750.4	(3/2⁻)	274.0	1/2⁻				
487.7 *5*	0.3	1285.2	(3/2⁺)	797.4	(5/2⁻)				
493.8 *5*	0.9	1794.8	(3/2⁺,5/2⁺,7/2⁺)	1301.1	(5/2⁺,7/2⁺)				
523.4 *2*	10.7	797.4	(5/2⁻)	274.0	1/2⁻	E2			α(K)=0.00479 *7*; α(L)=0.000613 *9*; α(M)=0.0001167 *17*; α(N+..)=2.08×10^{-5} *3* α(N)=2.00×10^{-5} *3*; α(O)=8.42×10^{-7} *12* α(K)exp=0.0060 *8*
535.0 *5*	0.4	1285.2	(3/2⁺)	750.4	(3/2⁻)				
570.7 *5*	0.5	2391.2	(5/2⁺,7/2⁺)	1820.6	(5/2⁺,7/2⁺)				
609.1 *5*	3.9	2429.7	(3/2⁺,5/2⁺,7/2⁺)	1820.6	(5/2⁺,7/2⁺)	M1,E2			α(K)=0.00333; α(L)=0.00039 α(K)exp=0.0031 *7*
635.0 *5*	1.0	2429.7	(3/2⁺,5/2⁺,7/2⁺)	1794.8	(3/2⁺,5/2⁺,7/2⁺)				
637.9 *2*	5.1	1599.1	(1/2 to 7/2)⁺	961.0	(3/2,5/2)⁻	E1			α(K)=0.00100; α(L)=0.00012 α(K)exp=0.0018 *7*
652.8 *7*	0.7	2154.9		1502.6					
677.4 *5*	1.6	1473.8	(3/2,5/2,7/2)	797.4	(5/2⁻)				
682.0 *7*	0.8	2154.9		1473.8	(3/2,5/2,7/2)				
686.9 *2*	9.1	961.0	(3/2,5/2)⁻	274.0	1/2⁻	M1,E2			α(K)=0.00240 *12*; α(L)=0.000289 *7*; α(M)=5.49×10^{-5} *13*; α(N+..)=9.9×10^{-6} *3*

γ(^{101}Ag) (continued)

E_γ[‡]	I_γ[‡#]	E_i(level)	J^π_i	E_f	J^π_f	Mult.[†]	Comments
							α(N)=9.5×10^{-6} *3*; α(O)=4.4×10^{-7} *3* α(K)exp=0.0022 *3*
690.0 *7*	1.0	2679.6	(3/2$^+$,5/2$^+$,7/2$^+$)	1990.2	(5/2$^+$,7/2$^+$)		
700.5 *8*	1.3	2059.0	(5/2$^+$,7/2$^+$)	1357.4	(3/2$^+$,5/2$^+$,7/2$^+$)		
705.8[&] *7*	2.6[&]	1502.6		797.4	(5/2$^-$)		
705.8[&] *2*	2.6[&]	1990.2	(5/2$^+$,7/2$^+$)	1285.2	(3/2$^+$)		
728.8 *5*	1.7	2787.7	(3/2$^+$,5/2$^+$,7/2$^+$)	2059.0	(5/2$^+$,7/2$^+$)	M1,E2	α(K)=0.00220; α(L)=0.00026 α(K)exp=0.0028 *7*
757.7 *5*	0.6	2059.0	(5/2$^+$,7/2$^+$)	1301.1	(5/2$^+$,7/2$^+$)		
772.4 *5*	1.8	2130.0	(5/2$^+$,7/2$^+$)	1357.4	(3/2$^+$,5/2$^+$,7/2$^+$)		
796.0 *5*	0.4	2153.5		1357.4	(3/2$^+$,5/2$^+$,7/2$^+$)		
798.0 *5*	0.4	1820.6	(5/2$^+$,7/2$^+$)	1022.6	(5/2,7/2)$^+$		
924.7 *2*	14.6	1022.6	(5/2,7/2)$^+$	98.1	7/2$^+$	M1,E2	α(K)=0.00120 *9*; α(L)=0.000141 *8*; α(M)=2.68×10^{-5} *15*; α(N+..)=4.9×10^{-6} *3* α(N)=4.6×10^{-6} *3*; α(O)=2.18×10^{-7} *18* α(K)exp=0.00112 *14*
950.3 *5*	0.9	3380.0	(3/2$^+$,5/2$^+$,7/2$^+$)	2429.7	(3/2$^+$,5/2$^+$,7/2$^+$)		
969.6 *5*	0.8	2386.7		1417.5	(5/2$^+$,7/2$^+$)		
974.1 *5*	2.6	2391.2	(5/2$^+$,7/2$^+$)	1417.5	(5/2$^+$,7/2$^+$)		
1011.4 *5*	0.8	1285.2	(3/2$^+$)	274.0	1/2$^-$		
1022.6 *5*	4.6	1022.6	(5/2,7/2)$^+$	0	9/2$^+$		
1072.0 *5*	0.6	2429.7	(3/2$^+$,5/2$^+$,7/2$^+$)	1357.4	(3/2$^+$,5/2$^+$,7/2$^+$)		
1098.0[a] *5*	1.0[a]	1196.0	(5/2$^+$,7/2)	98.1	7/2$^+$		
1098.0[a] *5*	0.8[a]	2455.0	(3/2$^+$,5/2$^+$,7/2$^+$)	1357.4	(3/2$^+$,5/2$^+$,7/2$^+$)		
1108.6 *7*	0.9	2130.0	(5/2$^+$,7/2$^+$)	1022.6	(5/2,7/2)$^+$		
1130.0 *7*	1.0	2429.7	(3/2$^+$,5/2$^+$,7/2$^+$)	1301.1	(5/2$^+$,7/2$^+$)		
1153.8 *5*	1.0	2455.0	(3/2$^+$,5/2$^+$,7/2$^+$)	1301.1	(5/2$^+$,7/2$^+$)		
1187.3 *5*	5.9	1285.2	(3/2$^+$)	98.1	7/2$^+$	(E2)	α(K)=0.00064 α(K)exp=0.00082 *18* Mult.: From Adopted Levels, gammas.
1196.4 *5*	1.5	1196.0	(5/2$^+$,7/2)	0	9/2$^+$		
1203.0 *2*	10.3	1301.1	(5/2$^+$,7/2$^+$)	98.1	7/2$^+$		
1227.0 *5*	1.5	1324.6	(5/2$^+$,7/2)	98.1	7/2$^+$		
1258.9 *2*	17.4	1357.4	(3/2$^+$,5/2$^+$,7/2$^+$)	98.1	7/2$^+$	M1,E2	α(K)=0.00057 α(K)exp=0.00062 *8*
1285.4 *5*	1.4	2308.0		1022.6	(5/2,7/2)$^+$		
1301.1 *5*	0.6	1301.1	(5/2$^+$,7/2$^+$)	0	9/2$^+$		
1308.7 *7*	0.8	2269.9		961.0	(3/2,5/2)$^-$		
1319.5 *5*	4.1	1417.5	(5/2$^+$,7/2$^+$)	98.1	7/2$^+$		
1324.6 *2*	3.8	1324.6	(5/2$^+$,7/2)	0	9/2$^+$		
1331.8 *6*	5.3	2130.0	(5/2$^+$,7/2$^+$)	797.4	(5/2$^-$)		
1408.4 *7*	0.8	2429.7	(3/2$^+$,5/2$^+$,7/2$^+$)	1022.6	(5/2,7/2)$^+$		

γ(^{101}Ag) (continued)

E_γ[‡]	I_γ[‡#]	E_i(level)	J^π_i	E_f	J^π_f	Mult.[†]	Comments
1417.1 2	12.3	1417.5	(5/2+,7/2+)	0	9/2+	M1,E2	α(K)exp=0.00060 8
1430.7 5	1.1	2787.7	(3/2+,5/2+,7/2+)	1357.4	(3/2+,5/2+,7/2+)		
1491.6 5	1.2	2909.1	(3/2+,5/2+,7/2+)	1417.5	(5/2+,7/2+)		
1586.8 5	2.4	2943.5	(3/2+,5/2+,7/2+)	1357.4	(3/2+,5/2+,7/2+)		
1592.6 2	3.9	1690.9	(5/2,7/2)+	98.1	7/2+		
1631.4 5	5.3	2429.7	(3/2+,5/2+,7/2+)	797.4	(5/2−)		
1642.4 5	1.6	2943.5	(3/2+,5/2+,7/2+)	1301.1	(5/2+,7/2+)		
1656.5 7	2.8	2679.6	(3/2+,5/2+,7/2+)	1022.6	(5/2,7/2)+		
1685.7 5	1.5	1783.4	(5/2+,7/2+)	98.1	7/2+		
1690.9 2	7.2	1690.9	(5/2,7/2)+	0	9/2+		
1696.7 2	9.1	1794.8	(3/2+,5/2+,7/2+)	98.1	7/2+		
1722.5 5	24.1	1820.6	(5/2+,7/2+)	98.1	7/2+		
1761.7 5	2.5	1859.7	(5/2+,7/2+)	98.1	7/2+		
1783.1 5	0.7	1783.4	(5/2+,7/2+)	0	9/2+		
1796.6 2	3.9	1894.7	(3/2+,5/2+,7/2+)	98.1	7/2+		
1801.6 5	1.2	3400.7	(3/2+,5/2+,7/2+)	1599.1	(1/2 to 7/2)+		
1820.6 5	0.7	1820.6	(5/2+,7/2+)	0	9/2+		
1842.0 5	1.1	3259.1	(3/2+,5/2+,7/2+)	1417.5	(5/2+,7/2+)		
1853.0 5	0.8	2875.7	(5/2+,7/2+)	1022.6	(5/2,7/2)+		
1859.7 2	9.1	1859.7	(5/2+,7/2+)	0	9/2+		
1892.0 5	1.4	1990.2	(5/2+,7/2+)	98.1	7/2+		
1960.9 5	5.0	2059.0	(5/2+,7/2+)	98.1	7/2+		
1983.5 5	0.8	3006.1	(3/2+,5/2+,7/2+)	1022.6	(5/2,7/2)+		
1990.2[a] 5	1.9[a]	1990.2	(5/2+,7/2+)	0	9/2+		
1990.2[a] 5	1.0[a]	2787.7	(3/2+,5/2+,7/2+)	797.4	(5/2−)		
2012.9 7	0.8	3430.0	(3/2+,5/2+,7/2+)	1417.5	(5/2+,7/2+)		
2032.5 7	0.9	2130.0	(5/2+,7/2+)	98.1	7/2+		
2055.4 7	0.8	2154.9		98.1	7/2+		
2059.0 5	0.3	2059.0	(5/2+,7/2+)	0	9/2+		
2130.0 5	2.9	2130.0	(5/2+,7/2+)	0	9/2+		
2139.2 7	0.9	3162.4	(3/2+,5/2+,7/2+)	1022.6	(5/2,7/2)+		
2146.0 5	0.3	2243.5		98.1	7/2+		
2190.7 7	0.6	2940.4	(5/2+)	750.4	(3/2−)		
2243.5 5	1.1	2243.5		0	9/2+		
2293.3 7	0.4	2391.2	(5/2+,7/2+)	98.1	7/2+		
2391.2 7	0.4	2391.2	(5/2+,7/2+)	0	9/2+		
2431.5 5	0.4	3229.2	(3/2+,5/2+,7/2+)	797.4	(5/2−)		
2776.1 7	1.2	2875.7	(5/2+,7/2+)	98.1	7/2+		
2841.9 5	3.7	2940.4	(5/2+)	98.1	7/2+		
2875.7 5	0.5	2875.7	(5/2+,7/2+)	0	9/2+		
2940.0 5	0.4	2940.4	(5/2+)	0	9/2+		
3064.9 7	0.4	3162.4	(3/2+,5/2+,7/2+)	98.1	7/2+		

From ENSDF

γ(^{101}Ag) (continued)

† From α(K)exp.

‡ Authors state ΔE$\gamma\approx$0.2 and ΔI$\gamma\approx$6%. In the case of doublets, these values may increase to 0.7 keV and 20%.

For absolute intensity per 100 decays, multiply by 0.472 *5*.

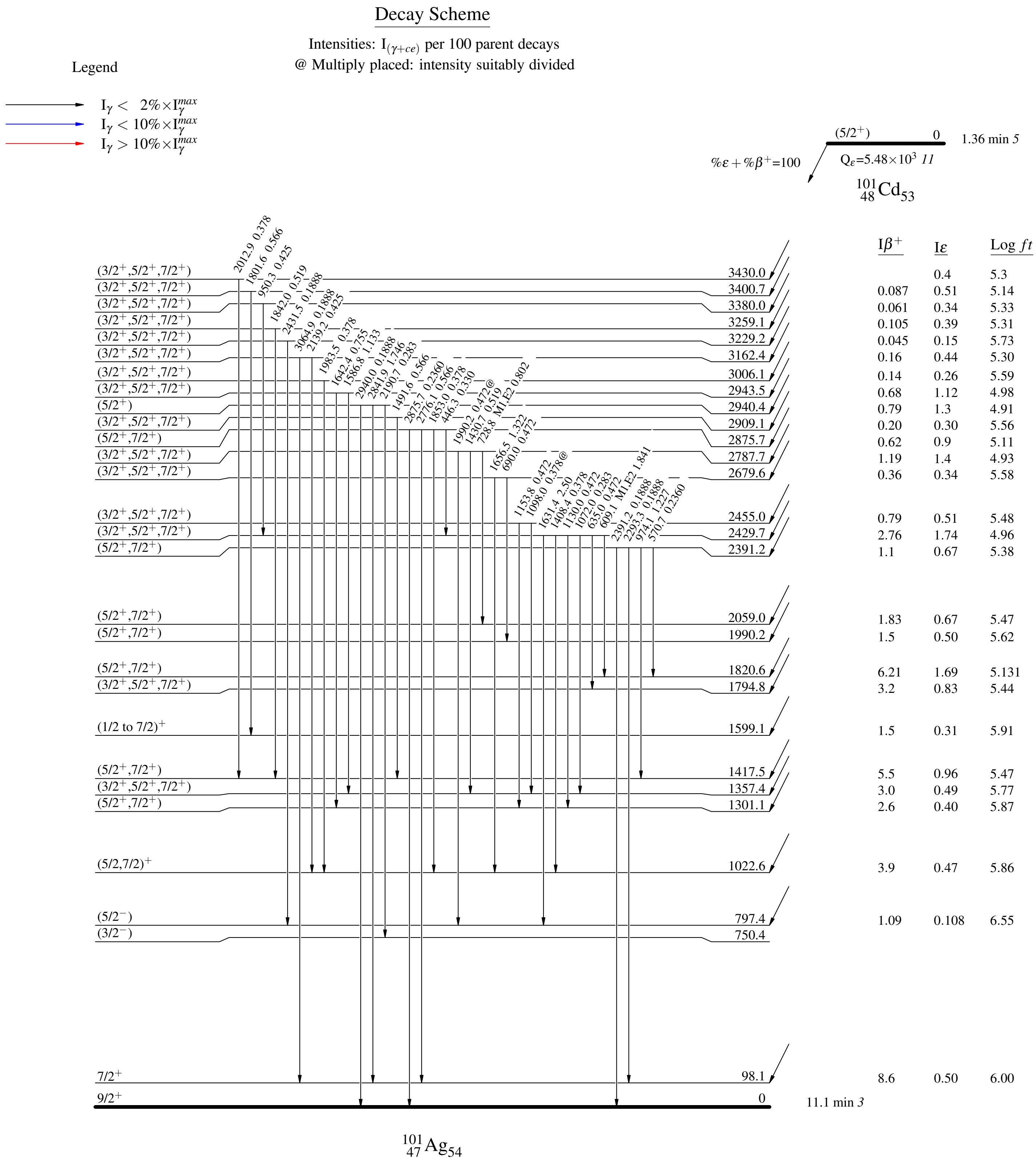
@ Total theoretical internal conversion coefficients, calculated using the BrIcc code (2008Ki07) with Frozen orbital approximation based on γ-ray energies, assigned multipolarities, and mixing ratios, unless otherwise specified.

& Multiply placed with undivided intensity.

[a] Multiply placed with intensity suitably divided.

$^{101}_{47}$Ag$_{54}$-7

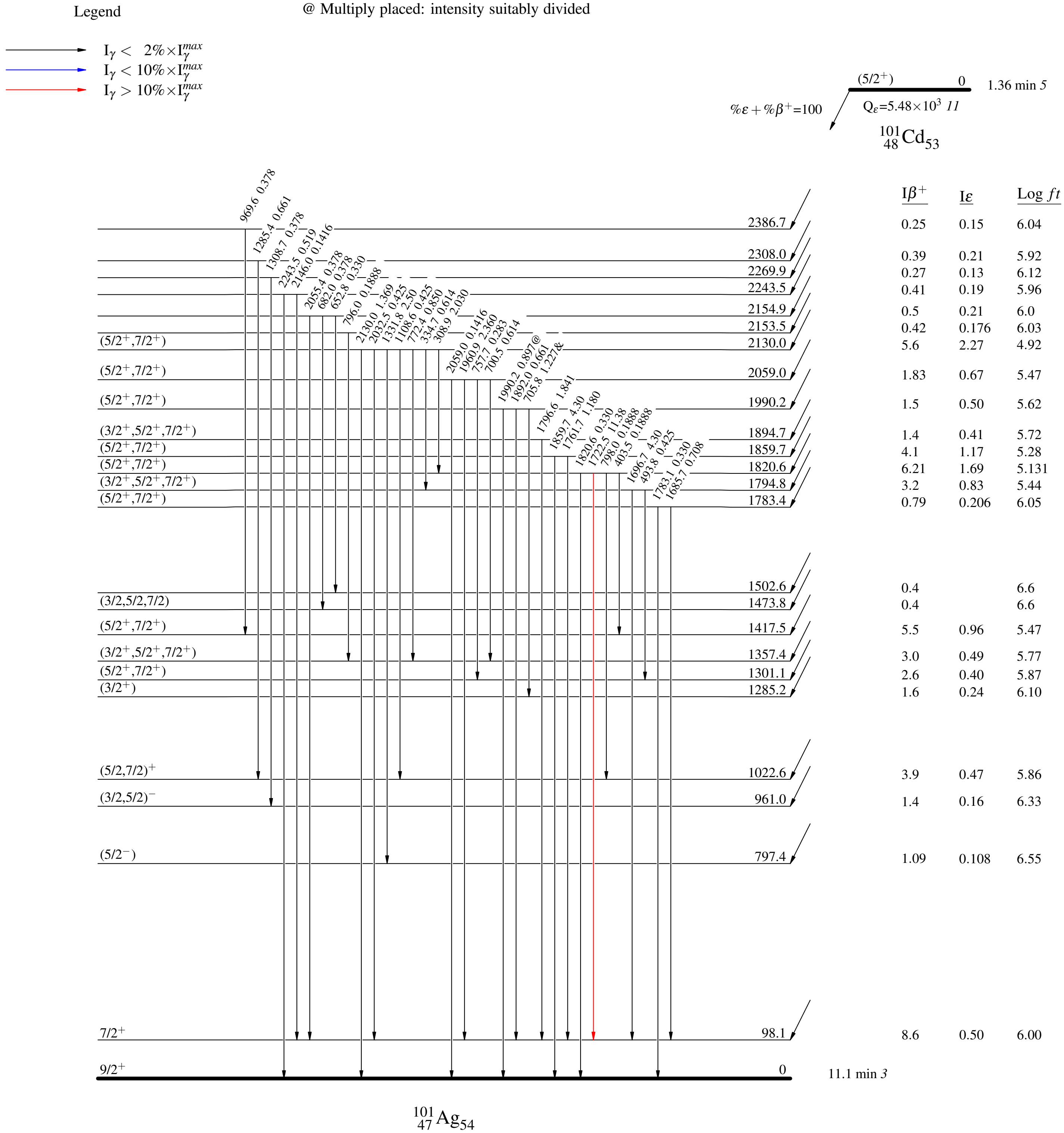
^{101}Cd ε decay 1980Ka05



^{101}Cd ε decay 1980Ka05

Decay Scheme (continued)

Intensities: $I_{(\gamma+ce)}$ per 100 parent decays
& Multiply placed: undivided intensity given
@ Multiply placed: intensity suitably divided



^{101}Cd ε decay 1980Ka05

Decay Scheme (continued)

Intensities: $I_{(\gamma+ce)}$ per 100 parent decays
& Multiply placed: undivided intensity given
@ Multiply placed: intensity suitably divided

Legend