^{103}In ε decay

History

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

Parent: ^{103}In: E=0.0; J$^{\pi}$=(9/2)$^{+}$; $T_{1/2}$=60 s *1*; Q(ε)=6050 *20*; %ε+%β^{+} decay=100.0

1998Ka42: ^{103}In source from ^{50}Cr(^{58}Ni,xpyn). Measured: Eγ, Iγ. Deduced: β-intensity, β-strength distributions.

1997Sz04: mass-separated activity produced in ^{50}Cr(^{58}Ni,3p2n) measured: Eγ, Iγ, $\gamma\gamma$. Deduced: ^{103}Cd levels, J^{π}.

1984Ve01: measured Eγ, Iγ, $\gamma\gamma$-coin. Deduced: $T_{1/2}$, ^{103}Cd levels, J^{π}.

1983Wo04: measured Eγ, Iγ, Eβ+, $\beta\gamma$-coin.

1988Bo28: measured Eβ+, Q(ε).

1978Lh01: measured Eγ, Iγ, α(K)exp.

Others: 1981BeZD, 1981CeZX, 1978Lh01.

As Qε=6050 keV and the highest Eγ is less than 4 MeV it might be possible that a significant fraction of the γ strength is unobserved Therefore the decay scheme should be considered as tentative.

^{103}Cd Levels

E(level)†	J$^{\pi}$‡	$T_{1/2}$	Comments
0.0	(5/2)$^{+}$	7.3 min *1*	$T_{1/2}$: from decay-curves: β^{+}, 1080γ, 1449γ, 1463γ (1969Ha03). Other: 7.70 min *17* (1980Ka05).
187.90 *13*	(7/2)$^{+}$		
201.75 *12*	(5/2)$^{+}$		
391.8 *5*			
569.5 *4*			
726.29 *8*			
739.9 *4*	(9/2)$^{+}$		
907.8 *5*	(11/2)$^{+}$		
916.9 *6*			
1073.0?			
1079.0 *8*			
1100.5?			
1104.7 *6*	(7/2,9/2,11/2)$^{+}$		
1107.6 *4*	(7/2,9/2)$^{+}$		
1134.5? *10*			
1138.1? *10*			
1293.8? *10*			
1307.9 *12*			
1326.9 *8*			
1347.3 *8*			
1368.8 *6*	(7/2,9/2)$^{+}$		
1480.8 *6*	(9/2,11/2)$^{+}$		
1512.6 *7*			
1542.1? *10*			
1598.2 *6*			
1604.9 *8*			
1662.0 *8*			
1744.8 *8*			
1779.9 *11*			
1790.1 *8*			
1826.6? *11*			
1853.4?			
1864.9? *10*			
1902.6 *11*			
1919.9 *7*			
1927.4? *8*			
1972.2 *5*	$^{+}$		
1996.9 *8*			

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^{103}In ε decay (continued)

^{103}Cd Levels (continued)

E(level)†	Jπ‡	E(level)†	Jπ‡	E(level)†	Jπ‡	E(level)†	Jπ‡
2052.9 *8*	+	2296.3 *10*		2781.3 *11*	+	3492.9 *8*	+
2086.4 *11*		2342.6 *12*	+	2794.7 *12*	+	3570.9 *8*	+
2161.1 *12*		2574.2?		2823.0 *11*	+	3830.3 *8*	+
2195.1?		2612.4?		2854.7?			
2238.8?		2640.7?		2981.3?			

† Level scheme taken from 1997Sz04.
‡ From Adopted Levels.

ε,β^+ radiations

I(ε)/[I(ε+Iβ^+)]=0.445 *20* (1998Ka42).
γ-ray multiplicity for ε: 3.0-3.2 (1998Ka42) γ-ray multiplicity for β^+: 2.5 (1998Ka42).
Total experimental Gamow-Teller strength: 2.47 *25* (1998Ka42). Total theoretical full-space shell-model calculation: 12.7 *10*.

E(decay)	E(level)	Iβ^+ ‡	Iε‡	Log *ft*	I(ε+β^+)†‡	Comments
(2220 *20*)	3830.3	0.07 *9*	0.2 *3*	5.5 *6*	0.3 *4*	av Eβ=534 *9*; εK=0.662 *9*; εL=0.0845 *11*; εM+=0.0211 *3*
(2479 *20*)	3570.9	0.18 *2*	0.31 *3*	5.45 *5*	0.49 *5*	av Eβ=649 *9*; εK=0.548 *9*; εL=0.0698 *12*; εM+=0.0174 *3*
(2557 *20*)	3492.9	1.23 *11*	1.80 *15*	4.71 *4*	3.03 *25*	av Eβ=684 *9*; εK=0.514 *9*; εL=0.0654 *12*; εM+=0.0163 *3*
(3227 *20*)	2823.0	1.50 *17*	0.70 *8*	5.32 *6*	2.20 *25*	av Eβ=989 *10*; εK=0.276 *6*; εL=0.0351 *7*; εM+=0.00874 *17*
(3255 *20*)	2794.7	0.41 *9*	0.18 *4*	5.91 *10*	0.59 *13*	av Eβ=1002 *10*; εK=0.269 *6*; εL=0.0341 *7*; εM+=0.00851 *17*
(3269 *20*)	2781.3	1.32 *14*	0.58 *6*	5.41 *5*	1.90 *20*	av Eβ=1008 *10*; εK=0.266 *5*; εL=0.0337 *7*; εM+=0.00840 *17*
(3707 *20*)	2342.6	1.36 *16*	0.35 *4*	5.75 *6*	1.71 *20*	av Eβ=1211 *10*; εK=0.177 *4*; εL=0.0224 *4*; εM+=0.00559 *11*
(3754 *20*)	2296.3	0.51 *10*	0.13 *3*	6.20 *9*	0.64 *13*	av Eβ=1233 *10*; εK=0.170 *3*; εL=0.0215 *4*; εM+=0.00536 *10*
(3889 *20*)	2161.1	0.10 *5*	0.021 *10*	7.01 *22*	0.12 *6*	av Eβ=1296 *10*; εK=0.151 *3*; εL=0.0191 *4*; εM+=0.00476 *9*
(3964 *20*)	2086.4	0.69 *13*	0.14 *2*	6.22 *8*	0.83 *15*	av Eβ=1331 *10*; εK=0.1414 *25*; εL=0.0179 *4*; εM+=0.00446 *8*
(3997 *20*)	2052.9	2.9 *3*	0.54 *5*	5.62 *4*	3.4 *3*	av Eβ=1347 *10*; εK=0.1374 *24*; εL=0.0174 *3*; εM+=0.00433 *8*
(4053 *20*)	1996.9	1.06 *14*	0.19 *3*	6.09 *6*	1.25 *17*	av Eβ=1373 *10*; εK=0.1310 *23*; εL=0.0166 *3*; εM+=0.00413 *7*
(4078 *20*)	1972.2	4.7 *3*	0.82 *6*	5.46 *4*	5.5 *4*	av Eβ=1384 *10*; εK=0.1283 *22*; εL=0.0162 *3*; εM+=0.00404 *7*
(4130 *20*)	1919.9	1.58 *18*	0.26 *3*	5.97 *6*	1.84 *21*	av Eβ=1409 *10*; εK=0.1229 *21*; εL=0.0155 *3*; εM+=0.00387 *7*
(4147 *20*)	1902.6	1.01 *13*	0.164 *21*	6.17 *6*	1.17 *15*	av Eβ=1417 *10*; εK=0.1211 *21*; εL=0.0153 *3*; εM+=0.00382 *7*
(4260 *20*)	1790.1	0.98 *12*	0.143 *18*	6.26 *6*	1.12 *14*	av Eβ=1470 *10*; εK=0.1105 *18*; εL=0.01396 *23*; εM+=0.00348 *6*
(4270 *20*)	1779.9	1.24 *13*	0.180 *19*	6.16 *5*	1.42 *15*	av Eβ=1475 *10*; εK=0.1096 *18*; εL=0.01385 *23*; εM+=0.00345 *6*
(4305 *20*)	1744.8	1.29 *11*	0.181 *16*	6.16 *4*	1.47 *13*	av Eβ=1491 *10*; εK=0.1065 *18*; εL=0.01346 *22*; εM+=0.00336 *6*
(4388 *20*)	1662.0	1.80 *17*	0.235 *22*	6.07 *5*	2.03 *19*	av Eβ=1530 *10*; εK=0.0998 *16*; εL=0.01261 *20*; εM+=0.00314 *5*

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^{103}In ε decay (continued)

ϵ,β^+ radiations (continued)

E(decay)	E(level)	Iβ^+ ‡	Iε‡	Log *ft*	I($\varepsilon+\beta^+$)†‡	Comments
(4445 *20*)	1604.9	1.10 *12*	0.137 *15*	6.31 *5*	1.24 *13*	av Eβ=1557 *10*; εK=0.0954 *15*; εL=0.01205 *19*; εM+=0.00300 *5*
(4452 *20*)	1598.2	2.5 *3*	0.31 *3*	5.96 *5*	2.8 *3*	av Eβ=1560 *10*; εK=0.0949 *15*; εL=0.01199 *19*; εM+=0.00299 *5*
(4537 *20*)	1512.6	2.2 *3*	0.25 *3*	6.07 *6*	2.4 *3*	av Eβ=1601 *10*; εK=0.0889 *14*; εL=0.01123 *18*; εM+=0.00280 *5*
(4569 *20*)	1480.8	3.3 *3*	0.37 *3*	5.90 *4*	3.7 *3*	av Eβ=1616 *10*; εK=0.0868 *14*; εL=0.01096 *17*; εM+=0.00273 *5*
(4681 *20*)	1368.8	3.6 *4*	0.37 *4*	5.93 *5*	4.0 *4*	av Eβ=1669 *10*; εK=0.0798 *12*; εL=0.01008 *15*; εM+=0.00251 *4*
(4703 *20*)	1347.3	0.76 *8*	0.076 *8*	6.62 *5*	0.84 *9*	av Eβ=1679 *10*; εK=0.0786 *12*; εL=0.00992 *15*; εM+=0.00247 *4*
(4723 *20*)	1326.9	1.08 *7*	0.107 *7*	6.47 *4*	1.19 *8*	av Eβ=1689 *10*; εK=0.0774 *12*; εL=0.00977 *15*; εM+=0.00244 *4*
(4742 *20*)	1307.9	0.20 *4*	0.019 *4*	7.22 *8*	0.22 *4*	av Eβ=1698 *10*; εK=0.0763 *12*; εL=0.00964 *15*; εM+=0.00240 *4*
(4942 *20*)	1107.6	7.0 *6*	0.58 *5*	5.78 *4*	7.6 *6*	av Eβ=1793 *10*; εK=0.0662 *10*; εL=0.00835 *12*; εM+=0.00208 *3*
(4945 *20*)	1104.7	7.7 *9*	0.63 *8*	5.74 *6*	8.3 *10*	av Eβ=1794 *10*; εK=0.0660 *10*; εL=0.00833 *12*; εM+=0.00208 *3*
(4971 *20*)	1079.0	0.51 *7*	0.041 *6*	6.93 *7*	0.55 *8*	av Eβ=1806 *10*; εK=0.0649 *9*; εL=0.00818 *12*; εM+=0.00204 *3*
(4977 *20*)	1073.0?	2.1 *10*	0.17 *8*	6.31 *21*	2.3 *11*	av Eβ=1809 *10*; εK=0.0646 *9*; εL=0.00815 *12*; εM+=0.00203 *3*
(5142 *20*)	907.8	8.0 *5*	0.57 *3*	5.82 *3*	8.6 *5*	av Eβ=1888 *10*; εK=0.0577 *8*; εL=0.00728 *10*; εM+=0.001815 *25*
(5310 *20*)	739.9	7.3 *19*	0.47 *12*	5.94 *12*	7.8 *20*	av Eβ=1968 *10*; εK=0.0517 *7*; εL=0.00652 *9*; εM+=0.001624 *22*
(5324 *20*)	726.29	2.2 *10*	0.14 *7*	6.47 *21*	2.3 *11*	av Eβ=1974 *10*; εK=0.0512 *7*; εL=0.00646 *9*; εM+=0.001610 *21*
(5481 *20*)	569.5	2.9 *6*	0.17 *3*	6.41 *9*	3.1 *6*	av Eβ=2049 *10*; εK=0.0464 *6*; εL=0.00584 *8*; εM+=0.001456 *19*
(5848 *20*)	201.75	0.8 *9*	0.03 *4*	7.2 *5*	0.8 *9*	av Eβ=2225 *10*; εK=0.0371 *5*; εL=0.00468 *6*; εM+=0.001165 *14*
(5862 *20*)	187.90	12.8 *11*	0.57 *5*	5.93 *4*	13.4 *11*	av Eβ=2232 *10*; εK=0.0368 *5*; εL=0.00464 *6*; εM+=0.001156 *14*

† Calculated by evaluator from I(γ+ce) imbalance at each level.
‡ Absolute intensity per 100 decays.

γ(^{103}Cd)

Iγ normalization: calculated from ΣI(γ+ce)=100% to g.s., assuming no β-feeding to the g.s. (as g.s.-to-g.s. transition has ΔJ=2 $\Delta\pi$=no).
α(K)exp from 1978Lh01.

E$_\gamma$†#	I$_\gamma$†#@	E$_i$(level)	J$^\pi_i$	E$_f$	J$^\pi_f$	Mult.‡	α&	Comments
156.7	0.35 *4*	726.29		569.5				
168.0	0.25 *3*	907.8	(11/2)$^+$	739.9	(9/2)$^+$			
177.8	0.54 *9*	569.5		391.8				
187.91 *14*	100	187.90	(7/2)$^+$	0.0	(5/2)$^+$	M1	0.0814 *12*	α(K)=0.0706 *10* α(K)exp=0.065 *11* (1978Lh01)

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^{103}In ε decay (continued)

γ(^{103}Cd) (continued)

E_γ [†#]	I_γ [†#@]	E_i(level)	J^π_i	E_f	J^π_f	Mult. [‡]	α [&]	Comments
190.8	0.03 *1*	1107.6	(7/2,9/2)$^+$	916.9				
191.0	0.54 *9*	916.9		726.29				
201.81 *12*	17.3 *13*	201.75	(5/2)$^+$	0.0	(5/2)$^+$	E2(+M1)	0.1254	α(K)=0.10 α(K)exp=0.13 *4* (1978Lh01)
^{x}236.3	0.28 *3*							
^{x}265.3	1.12 *11*							
^{x}332.5	0.07 *1*							
^{x}334.0	0.26 *3*							
367.5	7.6 *8*	569.5		201.75	(5/2)$^+$			
367.7	0.77 *13*	1107.6	(7/2,9/2)$^+$	739.9	(9/2)$^+$			
378.6	0.48 *11*	1104.7	(7/2,9/2,11/2)$^+$	726.29				
381.7	0.51 *8*	569.5		187.90	(7/2)$^+$			
391.0	0.46 *8*	1307.9		916.9				
391.7	5.6 *6*	391.8		0.0	(5/2)$^+$			
407.0	0.44 *7*	1919.9		1512.6				
490.7	0.57 *10*	1598.2		1107.6	(7/2,9/2)$^+$			
515.6	0.19 *4*	907.8	(11/2)$^+$	391.8				
524.3	1.13 *12*	726.29		201.75	(5/2)$^+$			
525.0	0.47 *8*	916.9		391.8				
535.1	0.47 *7*	1104.7	(7/2,9/2,11/2)$^+$	569.5				
538.0	1.4 *3*	1107.6	(7/2,9/2)$^+$	569.5				
538.1	0.87 *11*	739.9	(9/2)$^+$	201.75	(5/2)$^+$			
538.3	0.92 *10*	726.29		187.90	(7/2)$^+$			
552.1	2.4 *3*	739.9	(9/2)$^+$	187.90	(7/2)$^+$			
569.4	4.5 *5*	569.5		0.0	(5/2)$^+$			
572.9	0.88 *10*	1480.8	(9/2,11/2)$^+$	907.8	(11/2)$^+$			
586.7	1.03 *14*	1326.9		739.9	(9/2)$^+$			
604.7	0.76 *10*	1512.6		907.8	(11/2)$^+$			
648.5	0.24 *12*	2161.1		1512.6				
714.8	1.06 *14*	916.9		201.75	(5/2)$^+$			
715.2	2.0 *3*	1107.6	(7/2,9/2)$^+$	391.8				
719.9	34	907.8	(11/2)$^+$	187.90	(7/2)$^+$			
726.29 *8*	17.7 *19*	726.29		0.0	(5/2)$^+$			
739.8	33 *4*	739.9	(9/2)$^+$	0.0	(5/2)$^+$			
740.4	2.2 *3*	1480.8	(9/2,11/2)$^+$	739.9	(9/2)$^+$			
^{x}743.0	1.35 *23*							
754.4	4.4 *5*	1480.8	(9/2,11/2)$^+$	726.29				
772.4	4.9 *5*	1512.6		739.9	(9/2)$^+$			
^{x}807.4	0.34 *4*							
864.3	1.81 *22*	1972.2	$^+$	1107.6	(7/2,9/2)$^+$			
864.8	1.81 *22*	1604.9		739.9	(9/2)$^+$			
871.0[a]	0.35 *6*	1073.0?		201.75	(5/2)$^+$			
871.7	1.03 *14*	1598.2		726.29				
877.0	0.49 *10*	1079.0		201.75	(5/2)$^+$			
891.3	0.64 *13*	1079.0		187.90	(7/2)$^+$			
892.3	0.96 *18*	1996.9		1104.7	(7/2,9/2,11/2)$^+$			
898.5[a]	1.68 *21*	1100.5?		201.75	(5/2)$^+$			
905.7	1.21 *16*	1107.6	(7/2,9/2)$^+$	201.75	(5/2)$^+$			
916.7	18.2 *19*	1104.7	(7/2,9/2,11/2)$^+$	187.90	(7/2)$^+$			
919.8	5.3 *6*	1107.6	(7/2,9/2)$^+$	187.90	(7/2)$^+$			
946.6[a]	0.64 *10*	1134.5?		187.90	(7/2)$^+$			
950.2[a]	1.36 *17*	1138.1?		187.90	(7/2)$^+$			
977.0	1.43 *17*	1368.8	(7/2,9/2)$^+$	391.8				
994.8	2.4 *3*	1902.6		907.8	(11/2)$^+$			
1005.0	1.50 *18*	1744.8		739.9	(9/2)$^+$			
1018.5	1.51 *17*	1744.8		726.29				

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^{103}In ε decay (continued)

γ(^{103}Cd) (continued)

E_γ[†#]	I_γ[†#@]	E_i(level)	J^π_i	E_f	J^π_f
1040.0	2.9 *3*	1779.9		739.9	(9/2)$^+$
1050.1	1.00 *14*	1790.1		739.9	(9/2)$^+$
1064.0	1.30 *23*	1790.1		726.29	
1085.9[a]	1.4 *8*	1826.6?		739.9	(9/2)$^+$
1089.1	1.6 *3*	1996.9		907.8	(11/2)$^+$
1092.0[a]	0.82 *17*	1293.8?		201.75	(5/2)$^+$
1107.3	7.3 *8*	1107.6	(7/2,9/2)$^+$	0.0	(5/2)$^+$
1124.7	1.41 *6*	1326.9		201.75	(5/2)$^+$
1145.0	2.1 *3*	2052.9	+	907.8	(11/2)$^+$
1145.6	0.43 *8*	1347.3		201.75	(5/2)$^+$
1159.3	1.30 *15*	1347.3		187.90	(7/2)$^+$
1167.1	1.01 *12*	1368.8	(7/2,9/2)$^+$	201.75	(5/2)$^+$
1178.6	1.7 *3*	2086.4		907.8	(11/2)$^+$
1180.3	2.5 *4*	1919.9		739.9	(9/2)$^+$
1181.0	4.0 *6*	1368.8	(7/2,9/2)$^+$	187.90	(7/2)$^+$
1188.1[a]	1.73 *25*	1927.4?		739.9	(9/2)$^+$
[x]1219.5	0.50 *5*				
1232.0	1.34 *25*	1972.2	+	739.9	(9/2)$^+$
[x]1292.6	0.41 *4*				
1326.8	4.8 *5*	2052.9	+	726.29	
1331.1[a]	2.2 *3*	2238.8?		907.8	(11/2)$^+$
1340.3[a]	0.60 *10*	1542.1?		201.75	(5/2)$^+$
[x]1347.6	1.63 *18*				
[x]1368.5	1.81 *20*				
1368.8	1.81 *20*	1368.8	(7/2,9/2)$^+$	0.0	(5/2)$^+$
[x]1397.8	1.07 *11*				
1402.3	0.62 *13*	1972.2	+	569.5	
1402.6	0.73 *13*	1604.9		201.75	(5/2)$^+$
1410.5	4.1 *5*	1598.2		187.90	(7/2)$^+$
[x]1416.9	1.42 *15*				
1425.7	3.5 *4*	2342.6	+	916.9	
1460.1	1.85 *24*	1662.0		201.75	(5/2)$^+$
1474.1	2.3 *3*	1662.0		187.90	(7/2)$^+$
1570.0	1.32 *25*	2296.3		726.29	
1580.8	0.90 *14*	1972.2	+	391.8	
1591.2[a]	1.14 *6*	1779.9		187.90	(7/2)$^+$
[x]1597.7	1.48 *5*				
1661.3[a]	0.97 *12*	1662.0		0.0	(5/2)$^+$
1665.5[a]	0.89 *13*	1853.4?		187.90	(7/2)$^+$
1677.0[a]	1.30 *16*	1864.9?		187.90	(7/2)$^+$
1690.0	1.20 *25*	2794.7	+	1104.7	(7/2,9/2,11/2)$^+$
1732.0	0.83 *13*	1919.9		187.90	(7/2)$^+$
1770.7[a]	0.60 *13*	1972.2	+	201.75	(5/2)$^+$
1783.9	1.59 *19*	1972.2	+	187.90	(7/2)$^+$
1915.2	4.5 *5*	2823.0	+	907.8	(11/2)$^+$
[x]1943.1	0.48 *5*				
1947.0[a]	1.46 *19*	2854.7?		907.8	(11/2)$^+$
[x]1972.0	5.1 *6*				
1972.0	5.1 *6*	1972.2	+	0.0	(5/2)$^+$
2007.2[a]	1.52 *20*	2195.1?		187.90	(7/2)$^+$
[x]2054.5	0.78 *8*				
2073.6[a]	0.53 *9*	2981.3?		907.8	(11/2)$^+$
[x]2082.6	0.83 *9*				
2089.8[a]	1.27 *16*	3570.9	+	1480.8	(9/2,11/2)$^+$
2211.7	3.9 *4*	2781.3	+	569.5	

Continued on next page (footnotes at end of table)

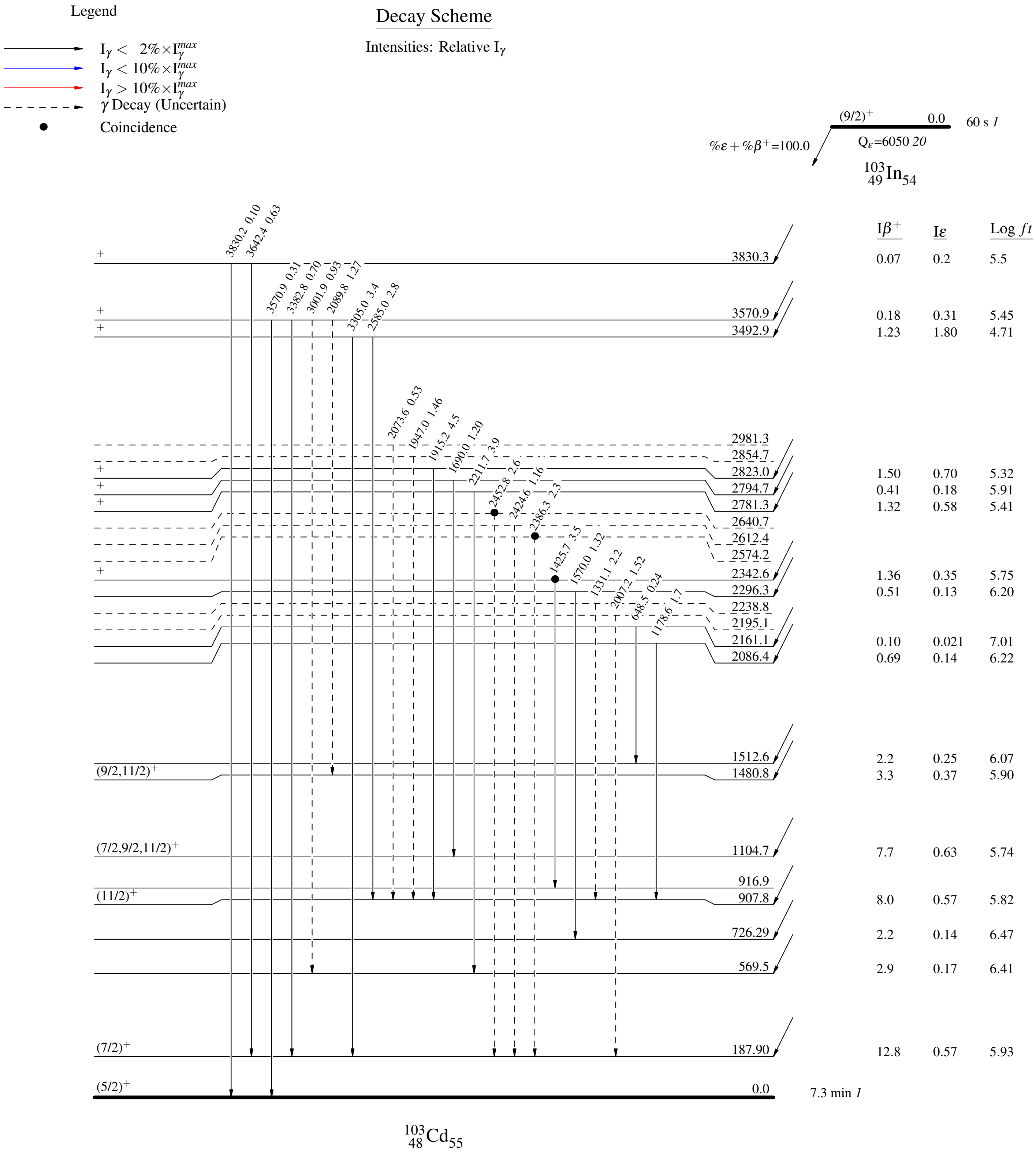
^{103}In ε decay (continued)

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

E_γ [†#]	I_γ [†#@]	E_i(level)	J^π_i	E_f	J^π_f
[x]2347.0	1.03 *11*				
2386.3[a]	2.3 *3*	2574.2?		187.90	$(7/2)^+$
2424.6[a]	1.16 *13*	2612.4?		187.90	$(7/2)^+$
2452.8[a]	2.6 *3*	2640.7?		187.90	$(7/2)^+$
2585.0	2.8 *3*	3492.9	+	907.8	$(11/2)^+$
[x]2605.6	0.38 *4*				
[x]2899.7	0.53 *6*				
3001.9[a]	0.93 *10*	3570.9	+	569.5	
[x]3087.8	1.42 *15*				
[x]3256.4	1.01 *11*				
3305.0	3.4 *4*	3492.9	+	187.90	$(7/2)^+$
[x]3319.0	0.17 *2*				
[x]3336.9	0.55 *6*				
[x]3354.5	0.29 *3*				
3382.8	0.70 *9*	3570.9	+	187.90	$(7/2)^+$
[x]3452.1	0.35 *4*				
[x]3507.5	0.63 *7*				
[x]3559.8	0.39 *4*				
[x]3570.9	0.31 *4*				
3570.9	0.31 *4*	3570.9	+	0.0	$(5/2)^+$
[x]3585.8	0.42 *4*				
3642.4	0.63 *8*	3830.3	+	187.90	$(7/2)^+$
[x]3665.5	0.21 *2*				
[x]3668.9	0.33 *4*				
[x]3697.5	0.42 *4*				
[x]3726.8	0.14 *1*				
[x]3735.3	0.12 *1*				
[x]3747.0	0.10 *1*				
[x]3763.6	0.17 *2*				
[x]3795.1	0.47 *5*				
[x]3814.7	0.27 *3*				
[x]3830.2	0.10 *1*				
3830.2	0.10 *1*	3830.3	+	0.0	$(5/2)^+$
[x]3877.0	0.47 *5*				
[x]3896.3	0.30 *3*				
[x]3951.7	0.24 *3*				
[x]3962.1	0.16 *2*				
[x]3981.6	0.28 *3*				

† Unless noted otherwise, from 1997Sz04.
‡ From comparison of exp and theoretical BRICC α(K).
\# All unplaced gammas from 1997Sz04.
@ For absolute intensity per 100 decays, multiply by 0.485 *3*.
& 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.
a Placement of transition in the level scheme is uncertain.
x γ ray not placed in level scheme.

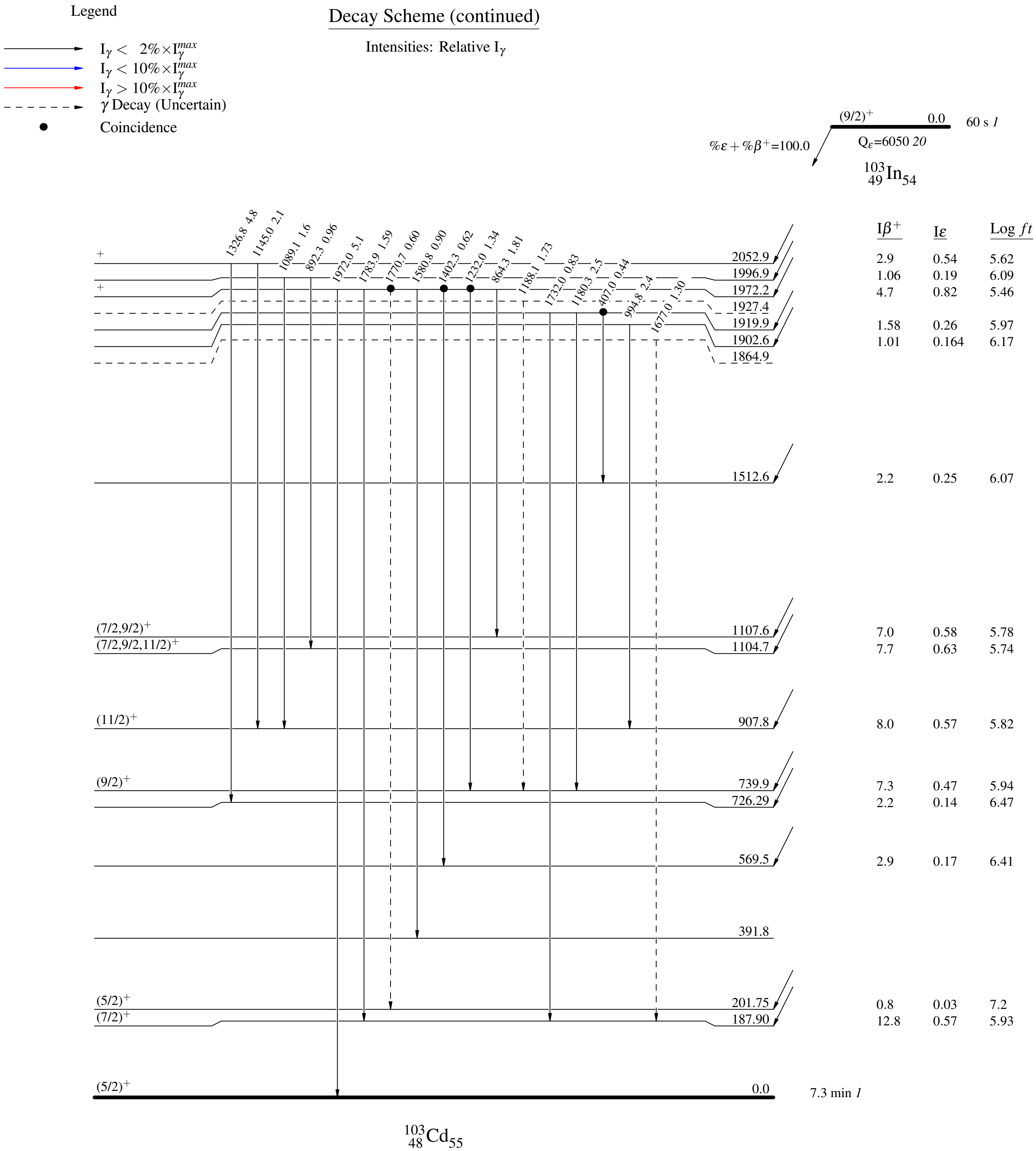
^{103}In ε decay



^{103}In ε decay

Decay Scheme (continued)

Intensities: Relative I$_\gamma$



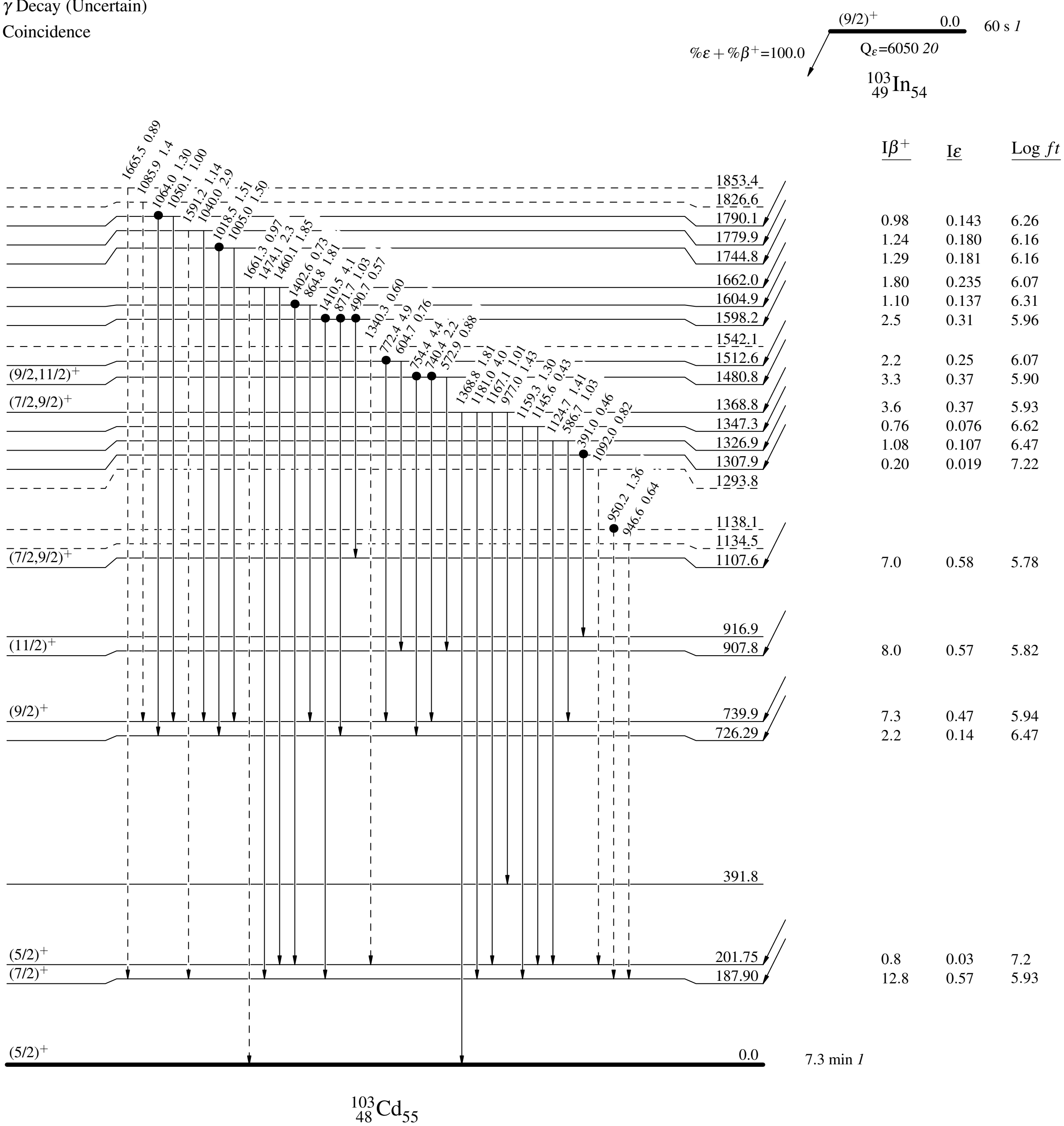
^{103}In ε decay

Decay Scheme (continued)

Intensities: Relative I_γ

Legend

- $I_\gamma < 2\% \times I_\gamma^{max}$
- $I_\gamma < 10\% \times I_\gamma^{max}$
- $I_\gamma > 10\% \times I_\gamma^{max}$
- γ Decay (Uncertain)
- ● Coincidence



^{103}In ε decay

Decay Scheme (continued)

Intensities: Relative I_γ