^{103}Cd ε decay (7.3 min)

History

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

Parent: ^{103}Cd: E=0.0; J$^{\pi}$=(5/2)$^{+}$; $T_{1/2}$=7.3 min *1*; Q(ε)=4142 *10*; %ε+%β^{+} decay=100.0
1978Lh01, 1980Lh01: mass-separated activity from Mo(^{14}N,ypxn).
Measured: Eγ, Iγ, βγ, (K x ray)γ, γγ-coin, Eβ. Deduced: Q(ε), ^{103}Ag levels, (ε+β^{+}) branches, log *ft*, *J*$^{\pi}$.
1980Ka05: mass-separated source via Sn(p,3pxn)Cd spallation. Measured: Eγ, Iγ, $T_{1/2}$, ce, γγ(t). Deduced: ^{103}Ag levels, *J*$^{\pi}$.
1980Ka05: ^{104}Pd(p,2nγ), E=19 MeV. Measured: γ(θ). Deduced: α.
1988Bo28: mass-separated source via Mo(HI,ypxn). Measured: Q(ε).

^{103}Ag Levels

Level scheme taken from 1978Lh01. Level energies obtained using least-squares procedure of measured γ energies.

E(level)	J$^{\pi}$†	$T_{1/2}$	Comments
0.0	7/2^{+}	65.7 min *7*	$T_{1/2}$: from 1975Di09. Deduced from ce decay curves. Others: 1966Ja12, 1962Pa05, 1960Pr14, 1955Jo25.
27.54 *4*	(9/2)$^{+}$		E(level): consistent with (1449γ)(27γ) coin relation, I(γ+ce)(27γ,M1) for level intensity balance, and γ-ray pairs of ΔE=27 keV including a g.s. transition.
134.45 *5*	1/2^{-}	5.7 s *3*	$T_{1/2}$: taken from 1962Wh02 ^{103}Ag IT decay.
521.41 *7*	(3/2)$^{-}$		
590.58 *17*	11/2^{+}		
590.79 *7*	(5/2)$^{-}$		
1079.91 *6*	(5/2,7/2)$^{+}$		
1083.53 *16*	1/2^{-},3/2^{-},5/2^{-}		
1099.28 *7*	(5/2,7/2,9/2)$^{+}$		
1210.83 *17*			
1257.9 *4*			
1311.68 *7*	(7/2)$^{+}$		J$^{\pi}$: consistent with γ-decay to 11/2^{+} state and log *ft*=6.0.
1422.07 *11*	(3/2)$^{+}$		
1461.80 *7*	(5/2)$^{+}$		
1476.23 *7*	(5/2,7/2)$^{+}$		
1552.09 *12*	+		
1556.96 *11*	+		
1705.14 *9*	3/2^{+}		
1776.00 *9*	(5/2,7/2)$^{+}$		
1822.01 *11*			
1828.6 *3*			
1856.69 *16*			
1880.01 *9*	(3/2,5/2,7/2)$^{+}$		
1901.17 *13*	+		
1906.97 *21*			
1957.97 *9*	(3/2,5/2,7/2)$^{+}$		
1968.54 *9*	(3/2,5/2,7/2)$^{+}$		
2012.07 *9*	(3/2,5/2,7/2)$^{+}$		
2020.53 *11*			
2022.58 *13*	(3/2,5/2,7/2)$^{+}$		E(level): the levels at 2022.58 and 2020.52 keV are considered by 1980Ka05 as one level at 2021.8 keV.
2088.99 *15*	(3/2,5/2,7/2)$^{+}$		
2125.05 *20*	(3/2,5/2,7/2)$^{+}$		
2133.05 *20*	(3/2,5/2,7/2)$^{+}$		
2167.65 *24*	(3/2,5/2,7/2)$^{+}$		
2199.37 *11*	(3/2)$^{+}$		
2206.6 *4*			E(level): not confirmed by 1980Ka05.

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^{103}Cd ε decay (7.3 min) (continued)

^{103}Ag Levels (continued)

E(level)	Jπ†	Comments
2245.15 *16*	(3/2,5/2,7/2)+	
2273.81 *16*	(3/2,5/2,7/2)+	
2287.8 *3*		
2356.10 *16*	(3/2,5/2,7/2)+	
2401.12 *11*	(3/2,5/2,7/2)+	
2439.42 *12*	(3/2,5/2,7/2)+	
2440.43 *19*	(3/2+)	
2485.15 *17*	(3/2,5/2,7/2)+	
2521.09 *9*	(3/2,5/2,7/2)+	
2586.97 *25*		
2597.73 *14*	(3/2,5/2,7/2)+	
2658.1 *3*	(3/2,5/2,7/2)+	
2662.09 *20*	(3/2,5/2,7/2)+	
2707.86 *15*	(3/2,5/2,7/2)+	
2708.69 *21*	(3/2,5/2,7/2)+	1980Ka05 propose an almost completely different decay pattern for this level; We adopted the decay pattern of 1978Lh01.
2726.7? *8*		
2778.1 *4*		
2796.1 *3*	(3/2,5/2,7/2)+	
2821.9 *3*	(3/2,5/2,7/2)+	
2855.60 *22*	(3/2,5/2,7/2)+	
2888.84 *11*	(3/2,5/2,7/2)+	
2980.62 *16*	(3/2,5/2,7/2)+	
3005.53 *19*	(3/2,5/2,7/2)+	
3188.8 *3*	(3/2,5/2,7/2)+	

† From Adopted Levels.

ε,β+ radiations

From exp E(β+) deduced Q(ε)=4250 *150* (1972IsZR), 4200 *100* (1970BeYT), 4190 *160* β-singles and 4310 *220* βγ-coin (1978Lh01). Others: 1960Pr14, 1969Ha03.

E(decay)	E(level)	Iβ+ ‡	Iε‡	Log *ft*	I(ε+β+)†‡	Comments
(953 *10*)	3188.8		0.56 *12*	5.19 *11*	0.56 *12*	εK= 0.8606; εL= 0.11171 *24*; εM+= 0.02773 *7*
(1136 *10*)	3005.53		0.57 *10*	5.34 *9*	0.57 *10*	εK= 0.8614; εL= 0.11101 *18*; εM+= 0.02752 *5*
(1161 *10*)	2980.62		1.10 *17*	5.07 *8*	1.10 *17*	εK= 0.8615; εL= 0.11093 *18*; εM+= 0.02750 *5*
(1253 *10*)	2888.84		2.0 *4*	4.88 *10*	2.0 *4*	εK= 0.8611; εL= 0.11058 *25*; εM+= 0.02740 *7*
(1286 *10*)	2855.60	0.0008 *10*	0.49 *9*	5.51 *9*	0.49 *9*	av Eβ= 133 *22*; εK= 0.8607 *12*; εL= 0.1104 *3*; εM+= 0.02736 *8*
(1320 *10*)	2821.9	0.0022 *24*	0.90 *19*	5.27 *10*	0.90 *19*	av Eβ= 148 *22*; εK= 0.8600 *16*; εL= 0.1102 *4*; εM+= 0.02731 *9*
(1346 *10*)	2796.1	0.0016 *15*	0.46 *8*	5.58 *9*	0.46 *8*	av Eβ= 159 *22*; εK= 0.8593 *20*; εL= 0.1101 *4*; εM+= 0.02727 *10*
(1364 *10*)	2778.1	0.0008 *8*	0.20 *5*	5.95 *12*	0.20 *5*	av Eβ= 167 *22*; εK= 0.8586 *23*; εL= 0.1100 *5*; εM+= 0.02724 *11*
(1415 *10*)	2726.7?	0.0010 *8*	0.14 *4*	6.14 *13*	0.14 *4*	av Eβ= 189 *22*; εK= 0.856 *4*; εL= 0.1095 *6*; εM+= 0.02713 *14*
(1433 *10*)	2708.69	0.015 *10*	1.78 *24*	5.04 *7*	1.79 *24*	av Eβ= 197 *22*; εK= 0.855 *4*; εL= 0.1093 *6*; εM+= 0.02708 *15*
(1434 *10*)	2707.86	0.016 *11*	1.9 *3*	5.02 *8*	1.9 *3*	av Eβ= 197 *22*; εK= 0.855 *4*; εL= 0.1093 *6*;

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^{103}Cd ε decay (7.3 min) (continued)

ϵ,β^+ radiations (continued)

E(decay)	E(level)	Iβ^+ ‡	Iε‡	Log *ft*	I(ε+β^+)†‡	Comments
						εM+= 0.02708 *15*
(1480 *10*)	2662.09	0.010 *6*	0.83 *18*	5.4 *1*	0.84 *18*	av Eβ= 217 *22*; εK= 0.852 *5*; εL= 0.1088 *7*; εM+= 0.02695 *18*
(1484 *10*)	2658.1	0.007 *5*	0.56 *15*	5.57 *12*	0.57 *15*	av Eβ= 219 *22*; εK= 0.852 *5*; εL= 0.1088 *8*; εM+= 0.02693 *19*
(1544 *10*)	2597.73	0.021 *10*	1.04 *16*	5.34 *8*	1.06 *16*	av Eβ= 245 *22*; εK= 0.846 *7*; εL= 0.1079 *9*; εM+= 0.02671 *23*
(1555 *10*)	2586.97	0.005 *3*	0.24 *6*	5.98 *11*	0.25 *6*	av Eβ= 250 *22*; εK= 0.844 *7*; εL= 0.1077 *10*; εM+= 0.02666 *24*
(1621 *10*)	2521.09	0.07 *3*	2.1 *3*	5.07 *7*	2.2 *3*	av Eβ= 278 *22*; εK= 0.835 *9*; εL= 0.1064 *12*; εM+= 0.0263 *3*
(1657 *10*)	2485.15	0.038 *14*	0.92 *15*	5.45 *8*	0.96 *15*	av Eβ= 294 *22*; εK= 0.829 *10*; εL= 0.1056 *14*; εM+= 0.0261 *4*
(1702 *10*)	2440.43	0.020 *7*	0.39 *7*	5.85 *8*	0.41 *7*	av Eβ= 313 *22*; εK= 0.821 *12*; εL= 0.1044 *15*; εM+= 0.0258 *4*
(1703 *10*)	2439.42	0.17 *7*	3.3 *9*	4.92 *12*	3.5 *9*	av Eβ= 314 *22*; εK= 0.820 *12*; εL= 0.1044 *15*; εM+= 0.0258 *4*
(1741 *10*)	2401.12	0.27 *9*	4.2 *7*	4.84 *8*	4.5 *7*	av Eβ= 330 *22*; εK= 0.812 *13*; εL= 0.1033 *17*; εM+= 0.0256 *4*
(1786 *10*)	2356.10	0.042 *13*	0.54 *9*	5.75 *8*	0.58 *9*	av Eβ= 350 *22*; εK= 0.801 *14*; εL= 0.1018 *19*; εM+= 0.0252 *5*
(1854 *10*)	2287.8	0.039 *14*	0.37 *10*	5.95 *12*	0.41 *11*	av Eβ= 380 *22*; εK= 0.782 *16*; εL= 0.0993 *21*; εM+= 0.0246 *6*
(1868 *10*)	2273.81	0.12 *4*	1.11 *19*	5.48 *9*	1.23 *21*	av Eβ= 386 *22*; εK= 0.777 *17*; εL= 0.0987 *22*; εM+= 0.0244 *6*
(1897 *10*)	2245.15	0.12 *3*	0.99 *15*	5.54 *7*	1.11 *16*	av Eβ= 398 *22*; εK= 0.768 *17*; εL= 0.0975 *23*; εM+= 0.0241 *6*
(1935 *10*)	2206.6	0.020 *9*	0.14 *6*	6.41 *17*	0.16 *6*	av Eβ= 415 *22*; εK= 0.755 *18*; εL= 0.0958 *24*; εM+= 0.0237 *6*
(1943 *10*)	2199.37	0.56 *14*	3.8 *7*	4.97 *8*	4.4 *7*	av Eβ= 418 *22*; εK= 0.753 *19*; εL= 0.0955 *24*; εM+= 0.0236 *6*
(1974 *10*)	2167.65	0.10 *3*	0.64 *15*	5.77 *11*	0.74 *17*	av Eβ= 432 *22*; εK= 0.741 *19*; εL= 0.0940 *25*; εM+= 0.0233 *6*
(2009 *10*)	2133.05	0.31 *7*	1.7 *3*	5.36 *8*	2.0 *3*	av Eβ= 448 *22*; εK= 0.728 *20*; εL= 0.092 *3*; εM+= 0.0228 *7*
(2017 *10*)	2125.05	0.091 *22*	0.48 *9*	5.91 *9*	0.57 *10*	av Eβ= 451 *22*; εK= 0.725 *20*; εL= 0.092 *3*; εM+= 0.0227 *7*
(2053 *10*)	2088.99	0.56 *13*	2.6 *5*	5.19 *8*	3.2 *5*	av Eβ= 467 *22*; εK= 0.711 *21*; εL= 0.090 *3*; εM+= 0.0223 *7*
(2119 *10*)	2022.58	0.14 *4*	0.55 *12*	5.9 *1*	0.69 *15*	av Eβ= 496 *23*; εK= 0.684 *22*; εL= 0.087 *3*; εM+= 0.0214 *7*
(2121 *10*)	2020.53	0.069 *25*	0.26 *9*	6.22 *15*	0.33 *11*	av Eβ= 497 *23*; εK= 0.683 *22*; εL= 0.086 *3*; εM+= 0.0214 *7*
(2130 *10*)	2012.07	0.40 *8*	1.45 *21*	5.48 *7*	1.85 *25*	av Eβ= 501 *23*; εK= 0.679 *22*; εL= 0.086 *3*; εM+= 0.0213 *7*
(2173 *10*)	1968.54	0.33 *9*	1.07 *24*	5.63 *10*	1.4 *3*	av Eβ= 520 *23*; εK= 0.660 *23*; εL= 0.084 *3*; εM+= 0.0207 *7*
(2184 *10*)	1957.97	0.63 *13*	2.0 *4*	5.37 *8*	2.6 *4*	av Eβ= 525 *23*; εK= 0.655 *23*; εL= 0.083 *3*; εM+= 0.0205 *8*
(2235 *10*)	1906.97	0.07 *3*	0.21 *8*	6.37 *16*	0.28 *10*	av Eβ= 548 *23*; εK= 0.633 *23*; εL= 0.080 *3*; εM+= 0.0198 *8*
(2241 *10*)	1901.17	0.08 *3*	0.21 *8*	6.36 *17*	0.29 *9*	av Eβ= 550 *23*; εK= 0.630 *23*; εL= 0.080 *3*; εM+= 0.0197 *8*
(2262 *10*)	1880.01	0.90 *17*	2.3 *4*	5.33 *8*	3.2 *5*	av Eβ= 560 *23*; εK= 0.620 *23*; εL= 0.078 *3*; εM+= 0.0194 *8*
(2285 *10*)	1856.69	0.04 *4*	0.11 *8*	6.7 *4*	0.15 *11*	av Eβ= 570 *23*; εK= 0.610 *23*; εL= 0.077 *3*; εM+= 0.0191 *8*

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^{103}Cd ε decay (7.3 min) (continued)

ϵ,β^+ radiations (continued)

E(decay)	E(level)	Iβ^+ ‡	Iε‡	Log *ft*	I($\varepsilon+\beta^+$)†‡	Comments
(2313 *10*)	1828.6	0.06 *4*	0.13 *7*	6.59 *24*	0.19 *10*	av Eβ= 582 *23*; εK= 0.597 *23*; εL= 0.075 *3*; εM+= 0.0187 *8*
(2320 *10*)	1822.01	0.23 *7*	0.51 *14*	6.01 *12*	0.74 *19*	av Eβ= 585 *23*; εK= 0.594 *23*; εL= 0.075 *3*; εM+= 0.0186 *8*
(2366 *10*)	1776.00	0.35 *8*	0.68 *15*	5.9 *1*	1.03 *22*	av Eβ= 606 *23*; εK= 0.572 *23*; εL= 0.072 *3*; εM+= 0.0179 *8*
(2437 *10*)	1705.14	1.7 *4*	2.7 *6*	5.32 *9*	4.4 *8*	av Eβ= 638 *23*; εK= 0.540 *23*; εL= 0.068 *3*; εM+= 0.0169 *8*
(2585 *10*)	1556.96	0.46 *11*	0.56 *13*	6.06 *11*	1.02 *23*	av Eβ= 704 *23*; εK= 0.474 *22*; εL= 0.060 *3*; εM+= 0.0148 *7*
(2590 *10*)	1552.09	0.37 *10*	0.44 *12*	6.16 *12*	0.81 *21*	av Eβ= 706 *23*; εK= 0.472 *22*; εL= 0.060 *3*; εM+= 0.0147 *7*
(2666 *10*)	1476.23	1.9 *5*	1.9 *5*	5.55 *11*	3.8 *9*	av Eβ= 741 *23*; εK= 0.440 *21*; εL= 0.055 *3*; εM+= 0.0137 *7*
(2680 *10*)	1461.80	4.1 *6*	4.1 *6*	5.22 *7*	8.2 *11*	av Eβ= 747 *23*; εK= 0.434 *21*; εL= 0.055 *3*; εM+= 0.0135 *7*
(2720 *10*)	1422.07	0.53 *11*	0.49 *10*	6.16 *10*	1.02 *20*	av Eβ= 765 *23*; εK= 0.418 *21*; εL= 0.053 *3*; εM+= 0.0130 *7*
(2830 *10*)	1311.68	0.9 *3*	0.70 *22*	6.04 *14*	1.6 *5*	av Eβ= 815 *23*; εK= 0.376 *19*; εL= 0.0473 *24*; εM+= 0.0117 *6*
(2884 *10*)	1257.9	0.12 *5*	0.08 *3*	6.99 *16*	0.20 *7*	av Eβ= 840 *23*; εK= 0.357 *18*; εL= 0.0449 *23*; εM+= 0.0111 *6*
(2931 *10*)	1210.83	0.29 *6*	0.19 *4*	6.64 *9*	0.48 *9*	av Eβ= 861 *23*; εK= 0.340 *18*; εL= 0.0429 *22*; εM+= 0.0106 *6*
(3043 *10*)	1099.28	0.40 *17*	0.22 *9*	6.61 *18*	0.62 *25*	av Eβ= 912 *23*; εK= 0.305 *16*; εL= 0.0384 *20*; εM+= 0.0095 *5*
(3058 *10*)	1083.53	0.27 *6*	0.15 *4*	6.79 *10*	0.42 *9*	av Eβ= 920 *23*; εK= 0.300 *16*; εL= 0.0378 *20*; εM+= 0.0093 *5*
(3062 *10*)	1079.91	1.9 *4*	1.00 *18*	5.95 *9*	2.9 *5*	av Eβ= 921 *23*; εK= 0.299 *16*; εL= 0.0377 *20*; εM+= 0.0093 *5*
(3551 *10*)	590.79	1.65 *24*	0.45 *7*	6.43 *7*	2.1 *3*	av Eβ= 1147 *24*; εK= 0.186 *9*; εL= 0.0234 *12*; εM+= 0.0058 *3*
(4008 *10*)	134.45	2.9 *8*	0.49 *13*	8.0^{1u}	3.4 *9*	av Eβ= 1360 *24*; εK= 0.124 *6*; εL= 0.0155 *7*; εM+= 0.00383 *17*
3109 *11*	0.0	10.5 *20*	1.5 *3*	6.03 *9*	12.0 *23*	av Eβ= 1423 *24*; εK= 0.110 *5*; εL= 0.0138 *6*; εM+= 0.00342 *15* I($\varepsilon+\beta^+$): deduced from Iγ/$\gamma\pm$, level scheme, intensity balance and ε/β^+ theory. E(decay): from 1988Bo28.

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

$\gamma(^{103}Ag)$

Iγ-normalization: normalization to absolute Iγ is based on ($\varepsilon+\beta^+$)=12.0 *23* to g.s. assuming no feeding to 27-keV level.
α(K)exp: taken from 1980Ka05. Calculated via Iγ and conversion electron data of the same authors.

E_γ[†]	I_γ[†@]	E_i(level)	J^π_i	E_f	J^π_f	Mult.[‡]	α[#]	Comments
27.56 *4*	11.0 *21*	27.54	(9/2)$^+$	0.0	7/2$^+$	M1	17.5 *3*	α(K)= 15.50; α(L)= 1.953; α(M)= 0.370 Mult.: I(γ+ce) balance about 27-keV level favors pure M1 character.
69.37 *6*	0.67 *11*	590.79	(5/2)$^-$	521.41	(3/2)$^-$	[M1]	1.21 *6*	α(K)= 1.039; α(L)= 0.1297; α(M)=0.02457; α(N+..)=0.00494
134.44 *5*	30.1 *10*	134.45	1/2$^-$	0.0	7/2$^+$	E3	3.7	K/L=1.9 *1* (1980Ka05) α(K)= 2.274; α(L)= 1.150; α(M)= 0.2306; α(N+..)= 0.0416 I_γ: from 1980Ka05.
187.5 *7*	2.0 *1*	2088.99	(3/2,5/2,7/2)$^+$	1901.17	$^+$	M1	0.074 *13*	α(K)exp=0.079 *14* (1980Ka05) E_γ,I_γ: from 1980Ka05.
242.0[&] *7*	0.6 *2*	2199.37	(3/2)$^+$	1957.97	(3/2,5/2,7/2)$^+$			E_γ: observed only by 1980Ka05.
243.1 *4*	12.6 *4*	1705.14	3/2$^+$	1461.80	(5/2)$^+$	M1,E2	0.050 *13*	α(K)exp=0.047 *8* (1980Ka05) E_γ,I_γ: from 1980Ka05.
264.4 *6*	1.1 *3*	1822.01		1556.96	$^+$			
296.7 *6*	0.8 *3*	2199.37	(3/2)$^+$	1901.17	$^+$			
318.0 *8*	0.2 *1*	2199.37	(3/2)$^+$	1880.01	(3/2,5/2,7/2)$^+$			
370.8 *6*	0.6 *2*	2199.37	(3/2)$^+$	1828.6				
377.0 *7*	1.3 *6*	1476.23	(5/2,7/2)$^+$	1099.28	(5/2,7/2,9/2)$^+$			
381.7[&] *2*	1.1 *3*	1461.80	(5/2)$^+$	1079.91	(5/2,7/2)$^+$			E_γ: observed only by 1980Ka05.
386.97 *7*	30.8 *10*	521.41	(3/2)$^-$	134.45	1/2$^-$	M1,E2	0.0108 *9*	α(K)=0.01002; α(L)=0.00119; α(M)=0.00023 α(K)exp=0.0115 *17*(1980Ka05) I_γ: from 1980Ka05.
387.2[&]	0.8	2287.8		1901.17	$^+$			E_γ: observed only by 1978Lh01.
442.2[&] *8*	1.4 *7*	2401.12	(3/2,5/2,7/2)$^+$	1957.97	(3/2,5/2,7/2)$^+$			E_γ: observed only by 1978Lh01.
456.34 *7*	25.0 *8*	590.79	(5/2)$^-$	134.45	1/2$^-$	M1,E2		α(K)exp=0.0074 *11* (1980Ka05) I_γ: from 1980Ka05. Mult.: from α(K)exp. If J^π's of 590 and 134 keV levels are correct M1 is excluded.
463.7 *6*	1.3 *4*	2020.53		1556.96	$^+$			
477.12 *20*	2.0 *3*	1556.96	$^+$	1079.91	(5/2,7/2)$^+$			
493.1[&] *2*	0.9 *2*	1083.53	1/2$^-$,3/2$^-$,5/2$^-$	590.79	(5/2)$^-$			E_γ: observed only by 1980Ka05.
494.3 *4*	4.4 *20*	2199.37	(3/2)$^+$	1705.14	3/2$^+$			
496.2 *4*	1.5 *5*	1957.97	(3/2,5/2,7/2)$^+$	1461.80	(5/2)$^+$			
520.3 *8*	0.2 *1*	2401.12	(3/2,5/2,7/2)$^+$	1880.01	(3/2,5/2,7/2)$^+$			
^{x}526.69 *32*	1.0 *2*							
^{x}530.86 *21*	4.4 *7*							
532.1 *4*	4.8 *3*	2088.99	(3/2,5/2,7/2)$^+$	1556.96	$^+$	M1,E2		α(K)exp=0.0064 *10* (1980Ka05) I_γ: from 1980Ka05.

$^{103}_{47}Ag_{56}$-5

^{103}Cd ε decay (7.3 min) (continued)

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

E_γ[†]	I_γ[†@]	E_i(level)	J^π_i	E_f	J^π_f	Mult.[‡]	Comments
544.4 *4*	3.0 *8*	2401.12	(3/2,5/2,7/2)$^+$	1856.69			
546.4 *4*	3.0 *8*	1968.54	(3/2,5/2,7/2)$^+$	1422.07	(3/2)$^+$		
552.60 *10*	3.0 *2*	2521.09	(3/2,5/2,7/2)$^+$	1968.54	(3/2,5/2,7/2)$^+$	M1,E2	α(K)exp=0.0044 *10* (1980Ka05) I_γ: from 1980Ka05.
562.2 *4*	1.3 *4*	1083.53	1/2$^-$,3/2$^-$,5/2$^-$	521.41	(3/2)$^-$		
[x]562.9 *4*	6.7 *30*						
563.0 *4*	7 *3*	590.58	11/2$^+$	27.54	(9/2)$^+$		
575.2[&] *7*	1.1 *3*	2133.05	(3/2,5/2,7/2)$^+$	1556.96	$^+$		E_γ: observed only by 1980Ka05.
598.8 *7*	1.0 *4*	2020.53		1422.07	(3/2)$^+$		
620.09 *16*	3.0 *3*	1210.83		590.79	(5/2)$^-$		
625.2 *4*	9.0 *18*	1705.14	3/2$^+$	1079.91	(5/2,7/2)$^+$	M1,E2	α(K)exp=0.0043 *12* (1980Ka05) I_γ: from 1980Ka05.
[x]626.21 *9*	14.9 *5*						
627.0 *4*	10.9 *20*	2088.99	(3/2,5/2,7/2)$^+$	1461.80	(5/2)$^+$	M1,E2	α(K)exp=0.0056 *12* (1980Ka05) E_γ,I_γ: from 1980Ka05.
640.8[&] *7*	1.8 *4*	2662.09	(3/2,5/2,7/2)$^+$	2020.53			E_γ: observed only by 1980Ka05.
643.1 *5*	2.6 *7*	2199.37	(3/2)$^+$	1556.96	$^+$		
645.0[&] *6*	1.1 *6*	2888.84	(3/2,5/2,7/2)$^+$	2245.15	(3/2,5/2,7/2)$^+$		
648.0 *10*	1.4 *5*	2199.37	(3/2)$^+$	1552.09	$^+$		
656.66[&] *35*	1.6 *4*	2133.05	(3/2,5/2,7/2)$^+$	1476.23	(5/2,7/2)$^+$		
663.4 *4*	2.6 *2*	2439.42	(3/2,5/2,7/2)$^+$	1776.00	(5/2,7/2)$^+$	M1,E2	α(K)exp=0.005 *15* (1980Ka05) I_γ: from 1980Ka05.
666.8 *4*	2.0 *6*	2088.99	(3/2,5/2,7/2)$^+$	1422.07	(3/2)$^+$		
667.2 *5*	1.2 *5*	1257.9		590.79	(5/2)$^-$		
677.0 *4*	2.7 *2*	1776.00	(5/2,7/2)$^+$	1099.28	(5/2,7/2,9/2)$^+$	M1,E2	α(K)exp=0.004 *1* (1980Ka05) I_γ: from 1980Ka05.
[x]681.6 *5*	1.1 *3*						
688.7 *6*	1.1 *4*	1210.83		521.41	(3/2)$^-$		
696.3 *6*	0.8 *4*	1776.00	(5/2,7/2)$^+$	1079.91	(5/2,7/2)$^+$		
703.9[&] *7*	0.9 *2*	2662.09	(3/2,5/2,7/2)$^+$	1957.97	(3/2,5/2,7/2)$^+$		E_γ: observed only by 1980Ka05.
721.1 *4*	6.1 *3*	1311.68	(7/2)$^+$	590.58	11/2$^+$	M1,E2	α(K)exp=0.0025 *5* (1980Ka05) I_γ: from 1980Ka05. Mult.: from α(K)exp. If J^π's of 1311 and 590 keV levels are correct M1 is excluded.
722.0 *6*	1.5 *6*	2273.81	(3/2,5/2,7/2)$^+$	1552.09	$^+$		
723.1 *4*	10.2 *10*	2199.37	(3/2)$^+$	1476.23	(5/2,7/2)$^+$	M1,E2	α(K)exp=0.0024 *5* (1980Ka05) I_γ: from 1980Ka05.
734.4[&] *4*	1.7 *8*	2439.42	(3/2,5/2,7/2)$^+$	1705.14	3/2$^+$		E_γ: observed only by 1978Lh01.
736.4 *4*	0.5 *2*	1257.9		521.41	(3/2)$^-$		
737.5 *4*	0.9 *3*	2199.37	(3/2)$^+$	1461.80	(5/2)$^+$		
739.1[&] *2*	<1.0	1822.01		1083.53	1/2$^-$,3/2$^-$,5/2$^-$		Only observed by 1980Ka05.
739.91 *32*	1.8 *2*	2708.69	(3/2,5/2,7/2)$^+$	1968.54	(3/2,5/2,7/2)$^+$		

^{103}Cd ε decay (7.3 min) (continued)

γ(^{103}Ag) (continued)

Eγ[†]	Iγ[†@]	Ei(level)	J^{π}_{i}	Ef	J^{π}_{f}	Mult.[‡]	Comments
749.83 *21*	2.6 *3*	2707.86	(3/2,5/2,7/2)$^+$	1957.97	(3/2,5/2,7/2)$^+$		
782.0 *4*	1.0 *3*	2662.09	(3/2,5/2,7/2)$^+$	1880.01	(3/2,5/2,7/2)$^+$		
^{x}789.71 *21*	1.2 *3*						
799.67[&] *27*	2.8 *4*	2888.84	(3/2,5/2,7/2)$^+$	2088.99	(3/2,5/2,7/2)$^+$		Eγ: observed only by 1978Lh01.
807.65 *20*	1.0 *4*	1906.97		1099.28	(5/2,7/2,9/2)$^+$	M1,E2	α(K)exp=0.0010 *4* (1980Ka05) Iγ: from 1980Ka05.
815.73 *17*	3.0 *2*	2521.09	(3/2,5/2,7/2)$^+$	1705.14	3/2$^+$	M1,E2	α(K)exp=0.0011 *4* (1980Ka05) Iγ: from 1980Ka05.
825.5[&] *7*	1.2 *3*	2726.7?		1901.17	$^+$		Eγ: only proposed by 1980Ka05.
^{x}835.09 *31*	1.9 *3*						
835.3[&] *7*	1.8 *4*	2658.1	(3/2,5/2,7/2)$^+$	1822.01			Eγ: observed only by 1980Ka05.
840.3 *4*	2.8 *11*	2662.09	(3/2,5/2,7/2)$^+$	1822.01			
852.8[&] *7*	1.2 *3*	2821.9	(3/2,5/2,7/2)$^+$	1968.54	(3/2,5/2,7/2)$^+$		Eγ: observed only by 1980Ka05.
855.4[&] *7*	1.4 *3*	2980.62	(3/2,5/2,7/2)$^+$	2125.05	(3/2,5/2,7/2)$^+$		Eγ: observed only by 1980Ka05.
859.12 *22*	2.0 *4*	1957.97	(3/2,5/2,7/2)$^+$	1099.28	(5/2,7/2,9/2)$^+$		
866.0 *4*	2.8 *9*	2888.84	(3/2,5/2,7/2)$^+$	2022.58	(3/2,5/2,7/2)$^+$		
868.6 *4*	1.7 *5*	2888.84	(3/2,5/2,7/2)$^+$	2020.53			
871.0 *4*	1.2 *3*	1461.80	(5/2)$^+$	590.79	(5/2)$^-$		
878.27 *26*	2.5 *4*	1957.97	(3/2,5/2,7/2)$^+$	1079.91	(5/2,7/2)$^+$		
880.5[&] *7*	0.9 *2*	3005.53	(3/2,5/2,7/2)$^+$	2125.05	(3/2,5/2,7/2)$^+$		Eγ: observed only by 1980Ka05.
881.9 *4*	2.6 *10*	2658.1	(3/2,5/2,7/2)$^+$	1776.00	(5/2,7/2)$^+$		
882.1[&] *7*	0.8 *2*	2586.97		1705.14	3/2$^+$		Eγ: observed only by 1980Ka05.
882.3 *4*	3.0 *11*	2439.42	(3/2,5/2,7/2)$^+$	1556.96	$^+$		
^{x}883.1 *5*	0.8 *2*						
887.5 *3*	2.0 *4*	2439.42	(3/2,5/2,7/2)$^+$	1552.09	$^+$		
^{x}906.4 *9*	1.1 *5*						
912.7[&] *7*	0.6 *4*	2012.07	(3/2,5/2,7/2)$^+$	1099.28	(5/2,7/2,9/2)$^+$		Eγ: observed only by 1978Lh01.
920.1[&] *7*	0.9 *2*	2821.9	(3/2,5/2,7/2)$^+$	1901.17	$^+$		Eγ: observed only by 1980Ka05.
920.46 *31*	1.8 *3*	2888.84	(3/2,5/2,7/2)$^+$	1968.54	(3/2,5/2,7/2)$^+$		
924.7 *7*	1.0 *5*	2401.12	(3/2,5/2,7/2)$^+$	1476.23	(5/2,7/2)$^+$		
931.5 *15*	4.2 *4*	2707.86	(3/2,5/2,7/2)$^+$	1776.00	(5/2,7/2)$^+$		
939.3 *5*	2.0 *4*	2401.12	(3/2,5/2,7/2)$^+$	1461.80	(5/2)$^+$		
940.4[&] *5*	3.0 *6*	1461.80	(5/2)$^+$	521.41	(3/2)$^-$		
949.09 *17*	4.5 *3*	1083.53	1/2$^-$,3/2$^-$,5/2$^-$	134.45	1/2$^-$	M1,E2	α(K)exp=0.00082 *20* (1980Ka05) Iγ: from 1980Ka05.
961.6 *6*	2.5 *9*	2273.81	(3/2,5/2,7/2)$^+$	1311.68	(7/2)$^+$		
963.1 *4*	14.2 *57*	2439.42	(3/2,5/2,7/2)$^+$	1476.23	(5/2,7/2)$^+$		
981.8[&] *7*	2.4 *5*	2888.84	(3/2,5/2,7/2)$^+$	1906.97			Eγ: observed only by 1980Ka05.
987.6[&] *7*	<0.5	2199.37	(3/2)$^+$	1210.83			Eγ: observed only by 1980Ka05.
987.9 *6*	1.8 *5*	2888.84	(3/2,5/2,7/2)$^+$	1901.17	$^+$		

From ENSDF

$^{103}_{47}$Ag$_{56}$-7

γ(^{103}Ag) (continued)

E_γ[†]	I_γ[†@]	E_i(level)	J^π_i	E_f	J^π_f	Mult.[‡]	Comments
1005.6 *4*	2.2 *3*	2088.99	(3/2,5/2,7/2)$^+$	1083.53	1/2$^-$,3/2$^-$,5/2$^-$		
1009.4 *5*	2.3 *3*	2088.99	(3/2,5/2,7/2)$^+$	1079.91	(5/2,7/2)$^+$		
1023.7 *6*	1.0 *4*	2485.15	(3/2,5/2,7/2)$^+$	1461.80	(5/2)$^+$		
1034.87 *22*	2.1 *4*	2586.97		1552.09	$^+$		
1045.40 *18*	2.1 *4*	2597.73	(3/2,5/2,7/2)$^+$	1552.09	$^+$		
1052.51 *19*	9.8 *5*	1079.91	(5/2,7/2)$^+$	27.54	(9/2)$^+$	M1,E2	α(K)exp=0.00065 *10* (1980Ka05) I_γ: from 1980Ka05.
1061.5[&] *7*	0.6 *2*	2888.84	(3/2,5/2,7/2)$^+$	1828.6			E_γ: observed only by 1980Ka05.
1068.4 *11*	1.8 *9*	2167.65	(3/2,5/2,7/2)$^+$	1099.28	(5/2,7/2,9/2)$^+$		E_γ: observed only by 1978Lh01.
1071.76 *18*	4.4 *2*	1099.28	(5/2,7/2,9/2)$^+$	27.54	(9/2)$^+$	M1,E2	α(K)exp=0.00083 *15* (1980Ka05) I_γ: from 1980Ka05.
1078.6[&] *7*	1.3 *3*	2855.60	(3/2,5/2,7/2)$^+$	1776.00	(5/2,7/2)$^+$		E_γ: observed only by 1980Ka05.
1079.90 *7*	46.5 *12*	1079.91	(5/2,7/2)$^+$	0.0	7/2$^+$		
1087.2 *10*	2.0 *7*	2167.65	(3/2,5/2,7/2)$^+$	1079.91	(5/2,7/2)$^+$		
1089.4 *4*	5.8 *12*	2401.12	(3/2,5/2,7/2)$^+$	1311.68	(7/2)$^+$		
1099.32 *7*	14.3 *5*	1099.28	(5/2,7/2,9/2)$^+$	0.0	7/2$^+$		
1099.6[&] *7*	4.0 *8*	3005.53	(3/2,5/2,7/2)$^+$	1906.97			E_γ: observed only by 1980Ka05.
1114.51 *19*	4.5 *5*	1705.14	3/2$^+$	590.58	11/2$^+$		
1124.1[&] *7*	1.3 *3*	2980.62	(3/2,5/2,7/2)$^+$	1856.69			E_γ: observed only by 1980Ka05.
1158.0 *8*	1.0 *5*	2980.62	(3/2,5/2,7/2)$^+$	1822.01			
1184.1 *3*	3.3 *5*	1705.14	3/2$^+$	521.41	(3/2)$^-$		
1208.2 *6*	1.9 *7*	2287.8		1079.91	(5/2,7/2)$^+$		
1246.6 *4*	1.6 *9*	2707.86	(3/2,5/2,7/2)$^+$	1461.80	(5/2)$^+$		
1284.1 *11*	2.0 *11*	1311.68	(7/2)$^+$	27.54	(9/2)$^+$		
1287.61 *10*	14.7 *7*	1422.07	(3/2)$^+$	134.45	1/2$^-$	E1	α(K)exp=0.00021 *4* (1980Ka05) I_γ: from 1980Ka05.
1301.7 *5*	3.2 *14*	2401.12	(3/2,5/2,7/2)$^+$	1099.28	(5/2,7/2,9/2)$^+$		
1307.2 *5*	0.9 *5*	1828.6		521.41	(3/2)$^-$		
1311.66 *7*	15.6 *6*	1311.68	(7/2)$^+$	0.0	7/2$^+$	M1,E2	α(K)exp=0.00055 *8* (1980Ka05) I_γ: from 1980Ka05.
1359.0 *5*	2.1 *7*	2439.42	(3/2,5/2,7/2)$^+$	1079.91	(5/2,7/2)$^+$		
1360.2 *4*	2.5 *9*	2821.9	(3/2,5/2,7/2)$^+$	1461.80	(5/2)$^+$		
1377.1 *5*	1.2 *3*	1968.54	(3/2,5/2,7/2)$^+$	590.79	(5/2)$^-$		
1412.83 *17*	2.9 *4*	2888.84	(3/2,5/2,7/2)$^+$	1476.23	(5/2,7/2)$^+$		
1420.8[&] *14*	0.7 *5*	2012.07	(3/2,5/2,7/2)$^+$	590.79	(5/2)$^-$		E_γ: observed only by 1978Lh01.
1428.7 *4*	3.2 *3*	2980.62	(3/2,5/2,7/2)$^+$	1552.09	$^+$		
1434.0 *4*	2.5 *3*	1461.80	(5/2)$^+$	27.54	(9/2)$^+$		
1441.24 *15*	4.3 *4*	2521.09	(3/2,5/2,7/2)$^+$	1079.91	(5/2,7/2)$^+$		
1447.1 *5*	6.0 *12*	1968.54	(3/2,5/2,7/2)$^+$	521.41	(3/2)$^-$		
1447.6[&] *7*	0.20 *4*	3005.53	(3/2,5/2,7/2)$^+$	1556.96	$^+$		E_γ: observed only by 1980Ka05.
1448.7 *1*	47.4 *18*	1476.23	(5/2,7/2)$^+$	27.54	(9/2)$^+$		

γ(^{103}Ag) (continued)

E_γ[†]	I_γ[†@]	E_i(level)	J^π_i	E_f	J^π_f	Mult.[‡]	Comments
1461.81 7	100	1461.80	$(5/2)^+$	0.0	$7/2^+$	M1,E2	α(K)exp=0.00032 3 (1980Ka05) I_γ: from 1980Ka05.
1476.27 11	16.8 6	1476.23	$(5/2,7/2)^+$	0.0	$7/2^+$	M1,E2	α(K)exp=0.00029 4 (1980Ka05) I_γ: from 1980Ka05.
1499.15 26	2.2 3	2020.53		521.41	$(3/2)^-$		
1500.4[&] 7	0.7 2	2597.73	$(3/2,5/2,7/2)^+$	1099.28	$(5/2,7/2,9/2)^+$		E_γ: observed only by 1980Ka05.
1518.0 5	1.4 3	2597.73	$(3/2,5/2,7/2)^+$	1079.91	$(5/2,7/2)^+$		
1529.29 17	4.9 5	3005.53	$(3/2,5/2,7/2)^+$	1476.23	$(5/2,7/2)^+$		
1552.00 15	21.1 8	1552.09	$^+$	0.0	$7/2^+$	M1,E2	α(K)exp=0.00031 8 (1980Ka05) I_γ: from 1980Ka05.
1556.94 14	19.5 7	1556.96	$^+$	0.0	$7/2^+$	M1,E2	α(K)exp=0.0032 8 (1980Ka05) I_γ: from 1980Ka05.
1567.5 5	3.0 11	2088.99	$(3/2,5/2,7/2)^+$	521.41	$(3/2)^-$		
1570.6 5	11.2 34	1705.14	$3/2^+$	134.45	$1/2^-$	E1	α(K)exp<0.0015 (1980Ka05) I_γ: from 1980Ka05.
1573.7[&] 5		2658.1	$(3/2,5/2,7/2)^+$	1083.53	$1/2^-,3/2^-,5/2^-$		
1627.9[&] 5	1.2 3	2707.86	$(3/2,5/2,7/2)^+$	1079.91	$(5/2,7/2)^+$		E_γ: observed only by 1978Lh01.
1636.4 8	1.9 7	3188.8	$(3/2,5/2,7/2)^+$	1552.09	$^+$		
^{x}1637.65[&] 35	1.7 3						
^{x}1646.4 4	1.2 3						
1668.84 25	1.9 3	2980.62	$(3/2,5/2,7/2)^+$	1311.68	$(7/2)^+$		
1677.8 6	1.3 4	2199.37	$(3/2)^+$	521.41	$(3/2)^-$		
1685.22 39	1.4 4	2206.6		521.41	$(3/2)^-$		
^{x}1693.22 19	5.2 5						
1694.2 4	1.3 6	1828.6		134.45	$1/2^-$		
1704.98 13	4.3 4	1705.14	$3/2^+$	0.0	$7/2^+$		
^{x}1718.65 15	3.6 3						
1748.45 10	12.4 7	1776.00	$(5/2,7/2)^+$	27.54	$(9/2)^+$		
1756.35 34	1.4 3	2855.60	$(3/2,5/2,7/2)^+$	1099.28	$(5/2,7/2,9/2)^+$		
1766.64 13	5.4 4	1901.17	$^+$	134.45	$1/2^-$		
1775.79 21	2.3 3	1776.00	$(5/2,7/2)^+$	0.0	$7/2^+$		
1776.1[&] 7	1.6 4	2855.60	$(3/2,5/2,7/2)^+$	1079.91	$(5/2,7/2)^+$		E_γ: observed only by 1980Ka05.
1808.74 21	2.9 3	2888.84	$(3/2,5/2,7/2)^+$	1079.91	$(5/2,7/2)^+$		
1822.02 11	9.0 5	1822.01		0.0	$7/2^+$		
1834.18 11	8.3 5	1968.54	$(3/2,5/2,7/2)^+$	134.45	$1/2^-$		
1856.67 17	4.3 4	1856.69		0.0	$7/2^+$		
1879.96 9	28.4 9	1880.01	$(3/2,5/2,7/2)^+$	0.0	$7/2^+$		
1880[&]		1906.97		27.54	$(9/2)^+$		
1907.5 8	1.4 6	1906.97		0.0	$7/2^+$		
1919.00 18	3.5 4	2440.43	$(3/2^+)$	521.41	$(3/2)^-$		
1930.23 11	16.3 7	1957.97	$(3/2,5/2,7/2)^+$	27.54	$(9/2)^+$		
1954[&]	2	2088.99	$(3/2,5/2,7/2)^+$	134.45	$1/2^-$		E_γ: observed only by 1978Lh01.

$^{103}_{47}$Ag$_{56}$-9

^{103}Cd ε decay (7.3 min) (continued)

γ(^{103}Ag) (continued)

E_γ †	I_γ †@	E_i(level)	J^π_i	E_f	J^π_f	Comments
x1955.9 5	1.7 2					
1958.5 5	2.5 2	1957.97	(3/2,5/2,7/2)+	0.0	7/2+	
1984.67 14	4.9 4	2012.07	(3/2,5/2,7/2)+	27.54	(9/2)+	
1999.0 7	1.5 5	2521.09	(3/2,5/2,7/2)+	521.41	(3/2)−	
2011.95 11	10.9 5	2012.07	(3/2,5/2,7/2)+	0.0	7/2+	
2022.53 13	8.7 5	2022.58	(3/2,5/2,7/2)+	0.0	7/2+	
2064.63 35	3.0 4	2199.37	(3/2)+	134.45	1/2−	
2067.9 7	0.9 3	2658.1	(3/2,5/2,7/2)+	590.79	(5/2)−	
2097.34 23	2.7 4	2125.05	(3/2,5/2,7/2)+	27.54	(9/2)+	
2117.6 6	1.0 3	2708.69	(3/2,5/2,7/2)+	590.79	(5/2)−	
2125.5 4	2.2 3	2125.05	(3/2,5/2,7/2)+	0.0	7/2+	
2133.03 20	16.7 9	2133.05	(3/2,5/2,7/2)+	0.0	7/2+	
2137&		2658.1	(3/2,5/2,7/2)+	521.41	(3/2)−	E_γ: observed only by 1978Lh01.
2167.66 25	2.5 3	2167.65	(3/2,5/2,7/2)+	0.0	7/2+	
2199.45 14	12.5 6	2199.37	(3/2)+	0.0	7/2+	
2245.12 16	9.5 5	2245.15	(3/2,5/2,7/2)+	0.0	7/2+	
2257.1 6	1.0 3	2778.1		521.41	(3/2)−	
2273.80 17	6.5 4	2273.81	(3/2,5/2,7/2)+	0.0	7/2+	
2287.72 36	1.6 3	2287.8		0.0	7/2+	
2298.1 10	0.5 2	2888.84	(3/2,5/2,7/2)+	590.79	(5/2)−	
2300.1 4	3.3 7	2821.9	(3/2,5/2,7/2)+	521.41	(3/2)−	
2305.8& 8	1.3 2	2440.43	(3/2+)	134.45	1/2−	E_γ: observed only by 1978Lh01.
2328.78 22	2.0 3	2356.10	(3/2,5/2,7/2)+	27.54	(9/2)+	
2355.81 23	3.0 3	2356.10	(3/2,5/2,7/2)+	0.0	7/2+	
x2365.7 8	1.7 3					
2368.0 6	2.2 7	2888.84	(3/2,5/2,7/2)+	521.41	(3/2)−	
2373.67 17	13.0 5	2401.12	(3/2,5/2,7/2)+	27.54	(9/2)+	
2386.66 19	5.5 4	2521.09	(3/2,5/2,7/2)+	134.45	1/2−	
2401.06 17	10.2 5	2401.12	(3/2,5/2,7/2)+	0.0	7/2+	
2411.72 28	1.8 3	2439.42	(3/2,5/2,7/2)+	27.54	(9/2)+	
2412.1& 7	1.7 4	2440.43	(3/2+)	27.54	(9/2)+	E_γ: observed only by 1980Ka05.
2439.58 21	4.5 3	2439.42	(3/2,5/2,7/2)+	0.0	7/2+	
2439.8& 7	4.6 10	2440.43	(3/2+)	0.0	7/2+	E_γ: observed only by 1980Ka05.
2457.72 35	1.6 3	2485.15	(3/2,5/2,7/2)+	27.54	(9/2)+	
2485.04 19	5.6 4	2485.15	(3/2,5/2,7/2)+	0.0	7/2+	
2520.91 34	1.5 3	2521.09	(3/2,5/2,7/2)+	0.0	7/2+	
2570.44 23	3.8 3	2597.73	(3/2,5/2,7/2)+	27.54	(9/2)+	
2597.80 35	1.8 3	2597.73	(3/2,5/2,7/2)+	0.0	7/2+	
2630.0& 6	0.6 2	2658.1	(3/2,5/2,7/2)+	27.54	(9/2)+	E_γ: observed only by 1978Lh01.
2658.1 5	1.4 3	2658.1	(3/2,5/2,7/2)+	0.0	7/2+	
2661.99 26	3.4 3	2662.09	(3/2,5/2,7/2)+	0.0	7/2+	
2681.35 28	12.5 5	2708.69	(3/2,5/2,7/2)+	27.54	(9/2)+	

^{103}Cd ε decay (7.3 min) (continued)

γ(^{103}Ag) (continued)

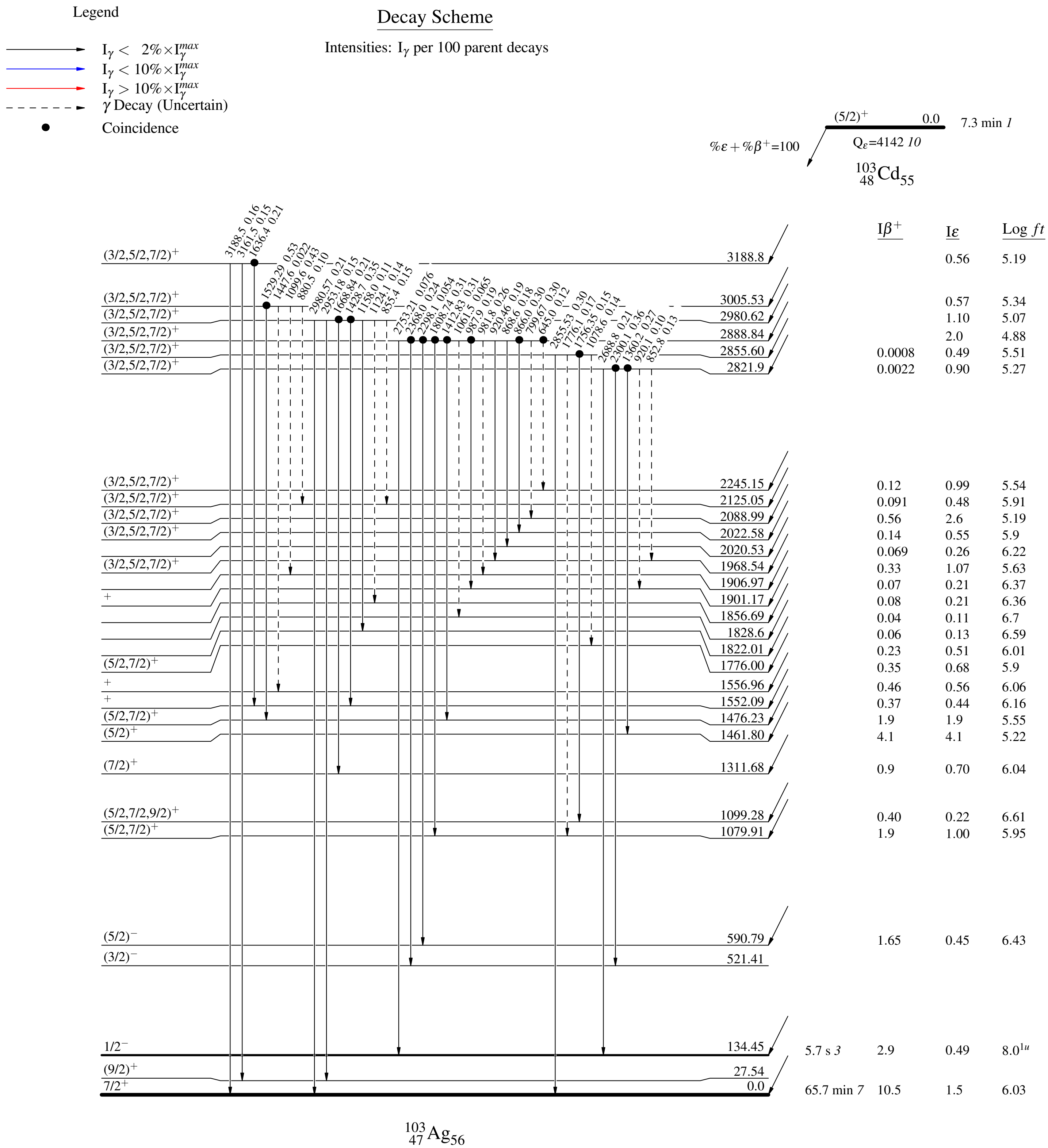
E_γ [†]	I_γ [†@]	E_i(level)	J^π_i	E_f	J^π_f
2688.8 *11*	1.9 *4*	2821.9	(3/2,5/2,7/2)$^+$	134.45	1/2$^-$
2707.71 *23*	8.0 *5*	2707.86	(3/2,5/2,7/2)$^+$	0.0	7/2$^+$
2708[&]		2708.69	(3/2,5/2,7/2)$^+$	0.0	7/2$^+$
2753.21 *38*	0.7 *2*	2888.84	(3/2,5/2,7/2)$^+$	134.45	1/2$^-$
2768.65 *35*	3.3 *4*	2796.1	(3/2,5/2,7/2)$^+$	27.54	(9/2)$^+$
2777.7 *5*	0.7 *2*	2778.1		0.0	7/2$^+$
2795.8 *6*	0.6 *2*	2796.1	(3/2,5/2,7/2)$^+$	0.0	7/2$^+$
^{x}2811.17 *32*	1.6 *3*				
^{x}2829.52 *26*	6.2 *5*				
2855.53 *28*	2.8 *4*	2855.60	(3/2,5/2,7/2)$^+$	0.0	7/2$^+$
^{x}2912.8 *5*	0.5 *2*				
2953.18 *35*	1.4 *3*	2980.62	(3/2,5/2,7/2)$^+$	27.54	(9/2)$^+$
2980.57 *32*	1.9 *3*	2980.62	(3/2,5/2,7/2)$^+$	0.0	7/2$^+$
^{x}3043.4 *4*	1.0 *3*				
^{x}3056.6 *4*	1.0 *3*				
^{x}3066.0 *4*	1.0 *3*				
3161.5 *4*	1.4 *3*	3188.8	(3/2,5/2,7/2)$^+$	27.54	(9/2)$^+$
3188.5 *4*	1.5 *3*	3188.8	(3/2,5/2,7/2)$^+$	0.0	7/2$^+$
^{x}3245.0 *5*	0.8 *3*				

† Taken from 1978Lh01, as 1980Ka05 does not give uncertainties on γ energies.
‡ M1 was assumed for the calculation of α, unless noted otherwise when conversion data indicated that other multipolarities were possible.
# Only α′s≥1% are given.
@ For absolute intensity per 100 decays, multiply by 0.108 *15*.
& Placement of transition in the level scheme is uncertain.
^{x} γ ray not placed in level scheme.

^{103}Cd ε decay (7.3 min)

Decay Scheme

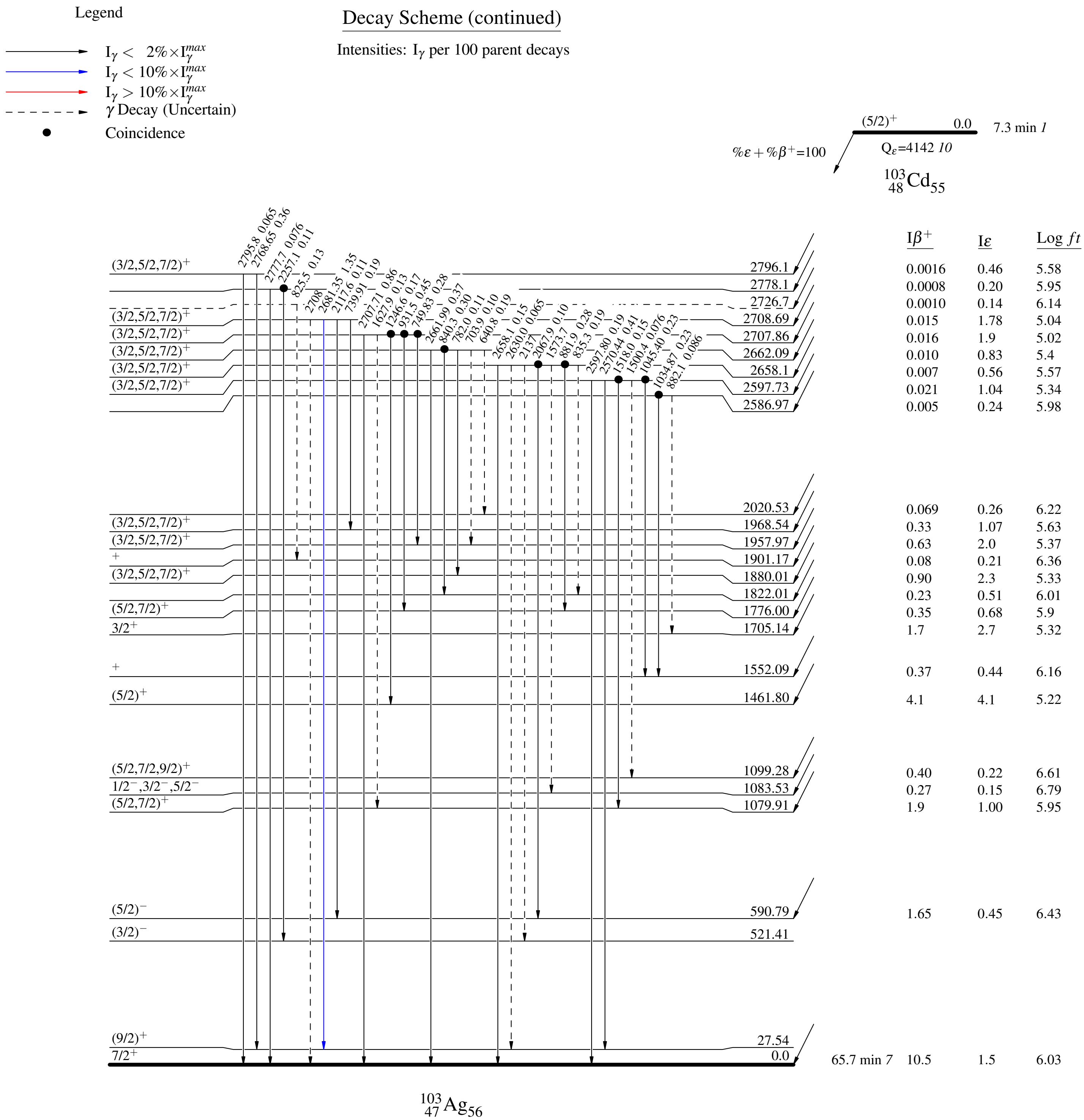
Intensities: I_γ per 100 parent decays



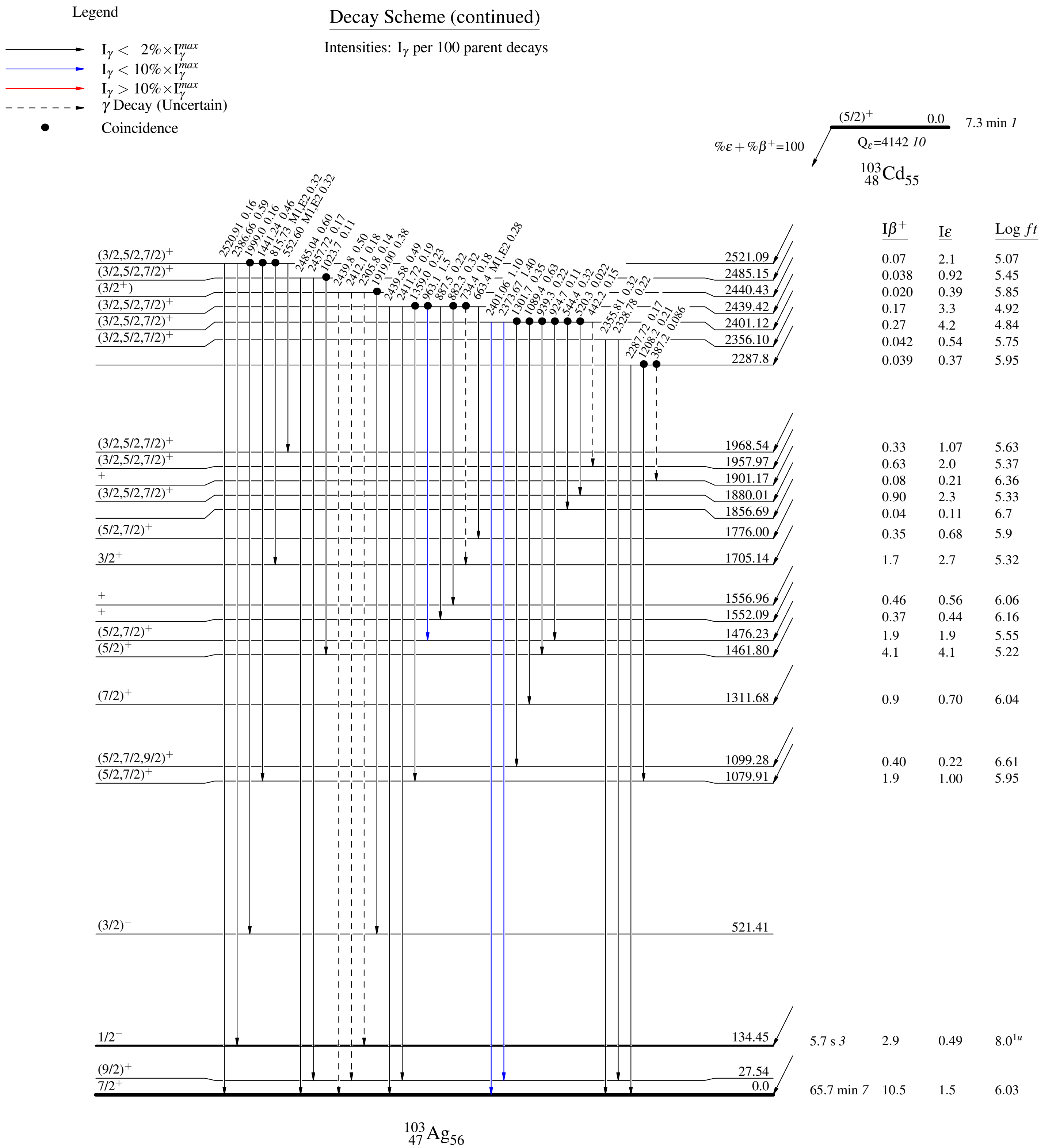
^{103}Cd ε decay (7.3 min)

Decay Scheme (continued)

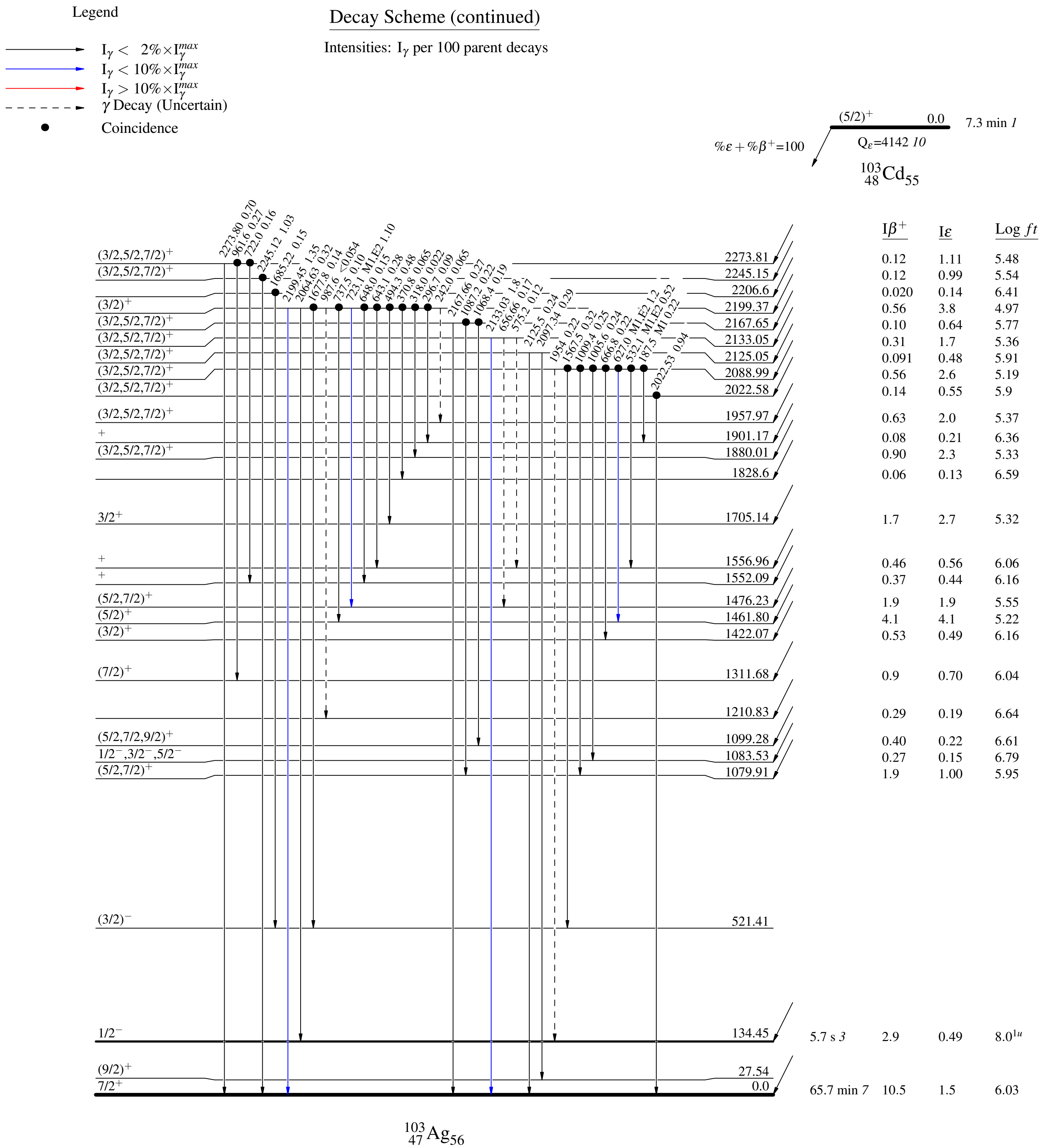
Intensities: I_γ per 100 parent decays



^{103}Cd ε decay (7.3 min)



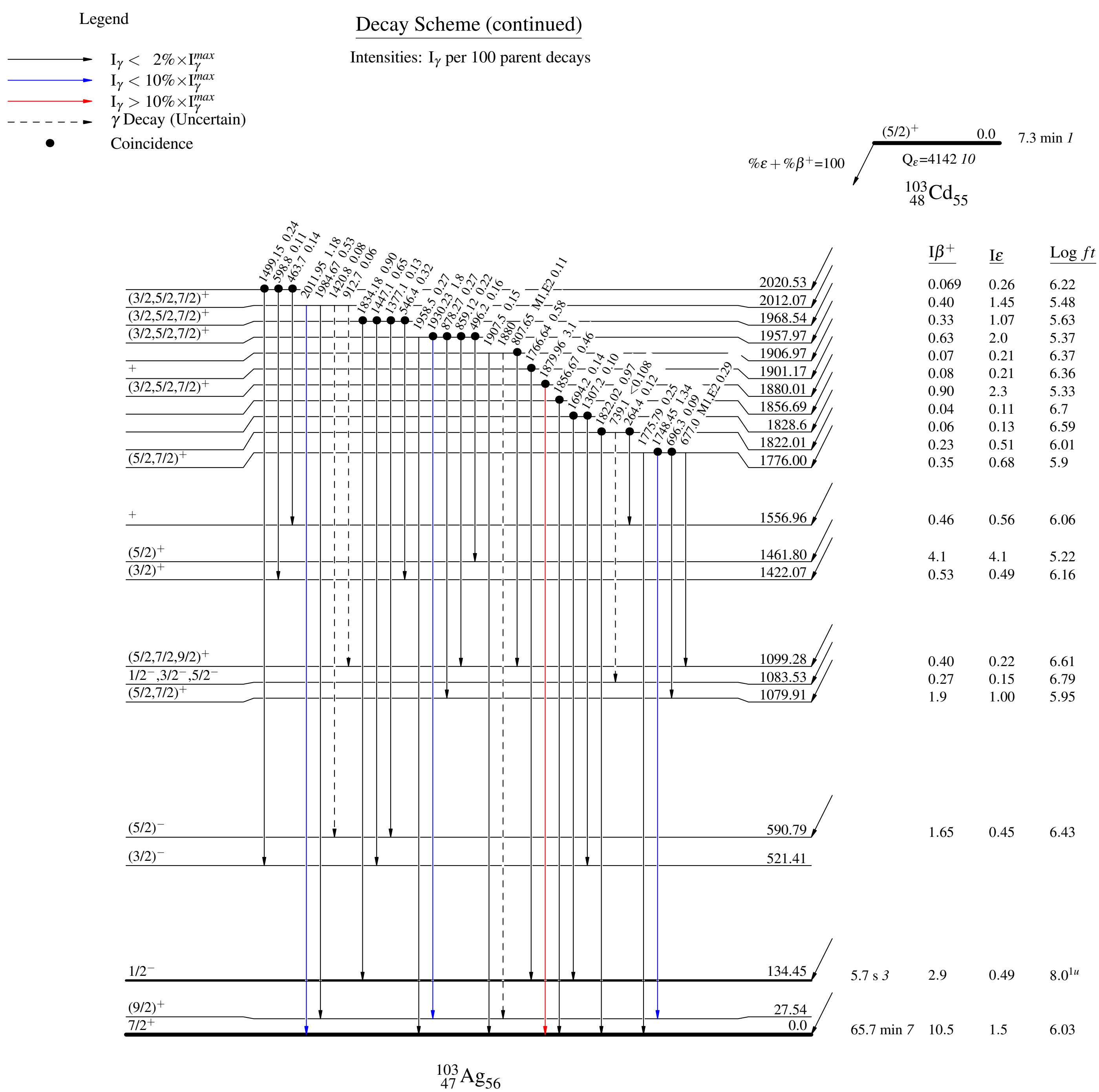
^{103}Cd ε decay (7.3 min)



^{103}Cd ε decay (7.3 min)

Decay Scheme (continued)

Intensities: I_γ per 100 parent decays



^{103}Cd ε decay (7.3 min)

Decay Scheme (continued)

Intensities: I_γ per 100 parent decays