^{105}In ε decay (5.07 min) 1984Ve01,1989Bu29

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	S. Lalkovski, J. Timar and Z. Elekes	NDS 161, 1 (2019)	1-Apr-2019

Parent: ^{105}In: E=0.0; J^π=9/2$^+$; $T_{1/2}$=5.07 min *7*; Q(ε)=4693 *10*; %ε+%β^+ decay=100.0

1984Ve01: Facility: CYCLONE cyclotron; Source: mass separated from ^{nat}Mo(^{14}N,xn) and ^{92}Mo(^{16}O,p3n) reactions at E(^{14}N)=90 MeV and E(^{16}O)=100 MeV; Detectors: two Ge(Li), one LEPS, plastic beta telescope and mini-orange spectrometer; Measured: γ, γ-γ coinc., γ-β coinc., γ-γ(t), β-γ(t), Eγ, Iγ; Deduced ^{105}Cd level scheme, J^π and log *ft*.

1989Bu29: source from ^{106}Cd(p,2n). Measured: Eγ, Iγ, γ-γ. coinc.; Deduced: ^{105}Cd level scheme, Iβ, log *ft*, γ-ray hindrance factors. Others: 1983Wo04, 1981BuZL, 1980ViZU, 1980Wi20, 1975Ri06, 1973Ro30.

^{105}Cd Levels

E(level)†	J^π‡	$T_{1/2}$	Comments
0.0	5/2$^+$		
131.18 *7*	7/2$^+$	1.75 ns *11*	$T_{1/2}$: from γ-131γ(t) in 1973Ro30.
196.17 *6*	(5/2$^+$)		
260.38 *6*	(7/2)$^+$		
604.39 *7*	(7/2)$^+$		
766.49 *9*	(5/2$^+$)		
771.00 *9*	9/2$^+$		
799.79 *13*	11/2$^+$		
832.52 *9*	9/2$^+$		
1114.84 *10*	(9/2$^+$)		
1139.59 *12*	(7/2$^+$)		
1163.29 *12*	(11/2)$^-$		
1182.49 *13*	(3/2$^+$ to 9/2$^+$)		
1327.97 *15*	(5/2$^+$)		
1386.69 *9*	(7/2$^+$,9/2$^+$)		
1439.71 *10*	(9/2$^+$)		
1495.24 *12*	(7/2$^+$,9/2$^+$)		
1579.23 *12*	(9/2$^+$)		
1608.78 *11*	(5/2$^+$,7/2,9/2$^+$)		
1625.52 *16*	(7/2$^+$,9/2$^+$)		
1635.50 *14*	(5/2$^+$)		
1729.01 *19*	(7/2$^+$,9/2$^+$)		
1822.78 *13*	(7/2$^+$,9/2$^+$,11/2$^+$)		
2060.01 *23*	(7/2$^+$,9/2$^+$,11/2$^+$)		
2142.77 *13*	(7/2$^+$,9/2$^+$)		
2193.70 *17*	(7/2$^+$,9/2$^+$)		
2277.85 *13*	(7/2$^+$,9/2$^+$,11/2$^+$)		
2307.96 *22*	(7/2$^+$,9/2$^+$,11/2$^+$)		
2365.53 *14*	(7/2$^+$,9/2$^+$)		
2371.90 *16*	(7/2$^+$,9/2$^+$)		
2420.12 *19*	(7/2$^+$,9/2$^+$)		
2552.46 *24*	(7/2$^+$,9/2$^+$,11/2$^+$)		
2677.27 *11*	(7/2$^+$,9/2$^+$)		
2853.56 *21*	(7/2$^+$,9/2$^+$)		
3165.42 *18*	(7/2$^+$,9/2$^+$)		
3202.97 *18*	(9/2$^+$)		
3337.8 *4*	(7/2$^+$,9/2$^+$,11/2$^+$)		

† From a least-squares fit to Eγ.

‡ From the Adopted Levels.

^{105}In ε decay (5.07 min) 1984Ve01,1989Bu29 (continued)

ε,β+ radiations

E(decay)	E(level)	Iβ+ †	Iε†	Log *ft*	I(ε+β+)†	Comments
(1355 *10*)	3337.8	0.0029 *6*	1.06 *16*	5.09 *7*	1.06 *16*	av Eβ=156.0 *44*; εK=0.8585 *3*; εL=0.11103 *7*; εM+=0.02777 *2*
(1490 *10*)	3202.97	0.0097 *18*	0.92 *15*	5.23 *7*	0.93 *15*	av Eβ=214.4 *44*; εK=0.8522 *8*; εL=0.10988 *12*; εM+=0.02747 *3*
(1528 *10*)	3165.42	0.0188 *21*	1.32 *11*	5.10 *4*	1.34 *11*	av Eβ=230.7 *44*; εK=0.8492 *9*; εL=0.10941 *14*; εM+=0.02735 *4*
(1839 *10*)	2853.56	0.078 *12*	0.95 *14*	5.40 *7*	1.03 *15*	av Eβ=366.1 *44*; εK=0.796 *3*; εL=0.1021 *4*; εM+=0.02550 *9*
(2016 *10*)	2677.27	0.60 *4*	3.70 *22*	4.89 *3*	4.30 *25*	av Eβ=443.4 *44*; εK=0.742 *4*; εL=0.0949 *5*; εM+=0.02371 *12*
(2141 *10*)	2552.46	0.12 *2*	0.48 *8*	5.83 *8*	0.60 *10*	av Eβ=498.5 *45*; εK=0.695 *4*; εL=0.0888 *6*; εM+=0.02216 *14*
(2273 *10*)	2420.12	0.24 *4*	0.70 *12*	5.72 *8*	0.94 *16*	av Eβ=557.2 *45*; εK=0.639 *5*; εL=0.0815 *6*; εM+=0.02036 *14*
(2321 *10*)	2371.90	0.68 *11*	1.7 *3*	5.35 *8*	2.4 *4*	av Eβ=578.6 *45*; εK=0.618 *5*; εL=0.0788 *6*; εM+=0.01967 *15*
(2327 *10*)	2365.53	0.37 *11*	0.9 *3*	5.62 *14*	1.3 *4*	av Eβ=581.5 *45*; εK=0.615 *5*; εL=0.0785 *6*; εM+=0.01958 *15*
(2385 *10*)	2307.96	0.35 *8*	0.77 *17*	5.73 *10*	1.12 *25*	av Eβ=607.2 *45*; εK=0.590 *5*; εL=0.0752 *6*; εM+=0.01876 *15*
(2415 *10*)	2277.85	0.40 *10*	0.80 *20*	5.72 *11*	1.2 *3*	av Eβ=620.6 *45*; εK=0.576 *5*; εL=0.0734 *6*; εM+=0.01833 *15*
(2499 *10*)	2193.70	0.19 *7*	0.31 *12*	6.16 *17*	0.50 *19*	av Eβ=658.4 *45*; εK=0.539 *5*; εL=0.0686 *6*; εM+=0.01713 *15*
(2550 *10*)	2142.77	0.80 *16*	1.2 *2*	5.59 *9*	2.0 *4*	av Eβ=681.2 *45*; εK=0.517 *5*; εL=0.0658 *6*; εM+=0.01641 *14*
(2633 *10*)	2060.01	0.38 *6*	0.49 *8*	6.01 *7*	0.87 *14*	av Eβ=718.5 *46*; εK=0.481 *5*; εL=0.0612 *6*; εM+=0.01528 *14*
(2870 *10*)	1822.78	0.48 *9*	0.40 *8*	6.17 *9*	0.88 *17*	av Eβ=826.0 *46*; εK=0.388 *4*; εL=0.0493 *5*; εM+=0.01229 *12*
(2964 *10*)	1729.01	<1.0	<0.70	>6.0	<1.7	av Eβ=868.8 *46*; εK=0.355 *4*; εL=0.0451 *5*; εM+=0.01125 *11*
(3058 *10*)	1635.50			>6.04	0	av Eβ=988 *6*; εK=0.277 *4*; εL=0.0352 *5*; εM+=0.00878 *11*
(3067 *10*)	1625.52	1.3 *2*	0.75 *11*	5.96 *7*	2.0 *3*	av Eβ=916.1 *46*; εK=0.322 *3*; εL=0.0409 *4*; εM+=0.01019 *10*
(3084 *10*)	1608.78	1.3 *3*	0.77 *18*	5.95 *11*	2.1 *5*	av Eβ=923.7 *46*; εK=0.317 *3*; εL=0.0402 *4*; εM+=0.01003 *10*
(3114 *10*)	1579.23	0.36 *15*	0.20 *8*	6.54 *18*	0.56 *23*	av Eβ=937.3 *46*; εK=0.308 *3*; εL=0.0391 *4*; εM+=0.00975 *10*
(3198 *10*)	1495.24	0.99 *9*	0.48 *4*	6.18 *4*	1.47 *13*	av Eβ=975.8 *46*; εK=0.284 *3*; εL=0.0361 *4*; εM+=0.00899 *9*
(3253 *10*)	1439.71	1.5 *7*	0.7 *3*	6.04 *20*	2.2 *10*	av Eβ=1001.3 *46*; εK=0.270 *3*; εL=0.0342 *4*; εM+=0.00853 *9*
(3306 *10*)	1386.69	5.0 *6*	2.1 *2*	5.57 *5*	7.1 *8*	av Eβ=1025.7 *46*; εK=0.2565 *25*; εL=0.0325 *4*; εM+=0.00811 *8*
(3365 *10*)	1327.97	<0.11	<0.042	>7.3	<0.15	av Eβ=1052.8 *47*; εK=0.2427 *23*; εL=0.0308 *3*; εM+=0.00767 *8*
(3511 *10*)	1182.49	0.35 *15*	0.11 *5*	6.90 *19*	0.46 *20*	av Eβ=1120.1 *47*; εK=0.2119 *20*; εL=0.0268 *3*; εM+=0.00669 *7*
(3530 *10*)	1163.29	0.25 *8*	0.08 *3*	7.05 *15*	0.33 *11*	av Eβ=1129.0 *47*; εK=0.2082 *20*; εL=0.02637 *25*; εM+=0.00657 *7*
(3553 *10*)	1139.59	2.0 *2*	0.61 *7*	6.17 *5*	2.6 *3*	av Eβ=1140.0 *47*; εK=0.2037 *19*; εL=0.02579 *24*; εM+=0.00643 *6*
(3578 *10*)	1114.84	1.5 *3*	0.44 *9*	6.32 *10*	1.9 *4*	av Eβ=1151.4 *47*; εK=0.1991 *19*; εL=0.02521 *24*; εM+=0.00629 *6*

Continued on next page (footnotes at end of table)

^{105}In ε decay (5.07 min) 1984Ve01,1989Bu29 (continued)

ε,β+ radiations (continued)

E(decay)	E(level)	Iβ+ †	Iε†	Log *ft*	I(ε+β+)†	Comments
(3860 *10*)	832.52	5.2 *9*	1.1 *2*	5.98 *8*	6.3 *11*	av Eβ=1282.8 *47*; εK=0.1546 *14*; εL=0.01956 *18*; εM+=0.00488 *5*
(3893 *10*)	799.79	5.5 *4*	1.1 *1*	5.98 *4*	6.6 *5*	av Eβ=1298.1 *47*; εK=0.1503 *14*; εL=0.01901 *17*; εM+=0.00474 *5*
(3922 *10*)	771.00	6.7 *15*	1.4 *3*	5.91 *10*	8.1 *18*	av Eβ=1311.6 *47*; εK=0.1466 *13*; εL=0.01854 *17*; εM+=0.00462 *4*
(3927 *10*)	766.49	<0.5	<0.1	>7.0	<0.6	av Eβ=1313.7 *47*; εK=0.1460 *13*; εL=0.01847 *16*; εM+=0.00460 *4*
(4089 *10*)	604.39	2.7 *6*	0.47 *10*	6.41 *10*	3.2 *7*	av Eβ=1389.6 *47*; εK=0.1272 *11*; εL=0.01609 *14*; εM+=0.00401 *4*
(4433 *10*)	260.38	8.8 *21*	1.1 *3*	6.11 *11*	9.9 *24*	av Eβ=1551.4 *48*; εK=0.0964 *8*; εL=0.01218 *10*; εM+=0.003036 *24*
471×10^{1} *13*	196.17	<0.4	<0.05	>7.4	<0.5	av Eβ=1581.7 *48*; εK=0.0918 *7*; εL=0.01159 *9*; εM+=0.002889 *23*
471×10^{1} *13*	131.18	23.3 *8*	2.62 *10*	5.759 *17*	25.9 *9*	av Eβ=1612.3 *48*; εK=0.0873 *7*; εL=0.01103 *9*; εM+=0.002749 *21*
471×10^{1} *13*	0.0	<0.15	<0.015	>8.0	<0.16	av Eβ=1674.4 *48*; εK=0.0792 *6*; εL=0.01000 *8*; εM+=0.002492 *19*

† Absolute intensity per 100 decays.

^{105}In ε decay (5.07 min) 1984Ve01,1989Bu29 (continued)

γ(^{105}Cd)

Iγ normalization: calculated from ΣI(γ+ce)=100% to g.s., assuming no (ε+β$^+$)-feeding to the ^{105}Cd g.s.

E_γ[‡]	I_γ[‡&]	E_i(level)	J_i^π	E_f	J_f^π	Mult.[#]	α[†]	Comments
64.31 *8*	1.03 *25*	260.38	(7/2)$^+$	196.17	(5/2$^+$)	[M1+E2]	4 *3*	α(K)=3.0 *16*; α(L)=1.2 *10*; α(M)=0.23 *20*; α(N+..)=0.04 *4* α(N)=0.04 *4*; α(O)=0.00057 *22* α: from intensity balance.
87.38 *19*	0.85 *12*	2365.53	(7/2$^+$,9/2$^+$)	2277.85	(7/2$^+$,9/2$^+$,11/2$^+$)			
119.1 *12*	2.0 *8*	1729.01	(7/2$^+$,9/2$^+$)	1608.78	(5/2$^+$,7/2,9/2$^+$)			
128.90 *25*	2.54 *18*	260.38	(7/2)$^+$	131.18	7/2$^+$	[M1+E2]	0.42 *19*	α(K)=0.34 *14*; α(L)=0.06 *4*; α(M)=0.013 *8*; α(N+..)=0.0022 *14* α(N)=0.0021 *13*; α(O)=7.0×10^{-5} *22*
131.47 *12*	100	131.18	7/2$^+$	0.0	5/2$^+$	M1	0.215	α(K)exp=0.18 *3* (1976NeZU) α(K)=0.187 *3*; α(L)=0.0233 *4*; α(M)=0.00448 *7*; α(N+..)=0.000843 *12* α(N)=0.000798 *12*; α(O)=4.56×10^{-5} *7* Mult.: from α(K)exp, small E2 contribution cannot be excluded.
140.09 *12*	0.43 *17*	1635.50	(5/2$^+$)	1495.24	(7/2$^+$,9/2$^+$)			
[x]154.15 *22*	0.68 *23*							
[x]156.3 *5*	0.68 *11*							
163.0 *4*	0.12 *4*	766.49	(5/2$^+$)	604.39	(7/2)$^+$	[M1+E2]	0.19 *8*	α(K)=0.16 *6*; α(L)=0.026 *14*; α(M)=0.005 *3*; α(N+..)=0.0009 *5* α(N)=0.0009 *5*; α(O)=3.4×10^{-5} *9*
166.9 *3*	0.96 *13*	771.00	9/2$^+$	604.39	(7/2)$^+$	[M1]	0.1120	α(K)=0.0972 *15*; α(L)=0.01204 *18*; α(M)=0.00232 *4*; α(N+..)=0.000436 *7* α(N)=0.000413 *7*; α(O)=2.37×10^{-5} *4*
192.1 *9*	0.9 *4*	1579.23	(9/2$^+$)	1386.69	(7/2$^+$,9/2$^+$)			
196.25 *7*	14.3 *6*	196.17	(5/2$^+$)	0.0	5/2$^+$	M1	0.0724	α(K)exp=0.063 *15* (1976NeZU) α(K)=0.0629 *9*; α(L)=0.00775 *11*; α(M)=0.001490 *21*; α(N+..)=0.000281 *4* α(N)=0.000266 *4*; α(O)=1.530×10^{-5} *22*
204.3 *6*	0.54 *25*	1386.69	(7/2$^+$,9/2$^+$)	1182.49	(3/2$^+$ to 9/2$^+$)			
213.0 *3*	0.20 *5*	1327.97	(5/2$^+$)	1114.84	(9/2$^+$)	[E2]	0.1035	α(K)=0.0861 *13*; α(L)=0.01416 *22*; α(M)=0.00276 *5*; α(N+..)=0.000492 *8* α(N)=0.000474 *8*; α(O)=1.79×10^{-5} *3*
227.81 *20*	2.0 *4*	832.52	9/2$^+$	604.39	(7/2)$^+$	(M1)	0.0487	α(K)=0.0423 *6*; α(L)=0.00520 *8*; α(M)=0.000998 *15*; α(N+..)=0.000188 *3* α(N)=0.000178 *3*; α(O)=1.029×10^{-5} *15*
238.3 *8*	1.7 *3*	1625.52	(7/2$^+$,9/2$^+$)	1386.69	(7/2$^+$,9/2$^+$)			
243.0 *3*	0.41 *6*	1822.78	(7/2$^+$,9/2$^+$,11/2$^+$)	1579.23	(9/2$^+$)			
248.8 *4*	0.9 *7*	1635.50	(5/2$^+$)	1386.69	(7/2$^+$,9/2$^+$)			

$^{105}_{48}Cd_{57}$-4

^{105}In ε decay (5.07 min) 1984Ve01,1989Bu29 (continued)

γ(^{105}Cd) (continued)

E_γ[‡]	I_γ[‡&]	E_i(level)	J_i^π	E_f	J_f^π	Mult.[#]	δ[#]	α[†]	Comments
260.27 *10*	37.9 *17*	260.38	(7/2)$^+$	0.0	5/2$^+$	M1+E2	+0.07 *9*	0.0345 *6*	α(K)exp=0.032 *6* (1976NeZU) α(K)=0.0300 *5*; α(L)=0.00367 *8*; α(M)=0.000704 *16*; α(N+..)=0.000133 *3* α(N)=0.000126 *3*; α(O)=7.26×10^{-6} *11* δ: from 1980Kr22.
277.75 *20*	0.7 *3*	2420.12	(7/2$^+$,9/2$^+$)	2142.77	(7/2$^+$,9/2$^+$)	[M1,E2]		0.035 *7*	α(K)=0.030 *5*; α(L)=0.0042 *12*; α(M)=0.00081 *22*; α(N+..)=0.00015 *4* α(N)=0.00014 *4*; α(O)=6.9×10^{-6} *8*
280.85 *14*	1.4 *3*	1608.78	(5/2$^+$,7/2,9/2$^+$)	1327.97	(5/2$^+$)				
290.0 *9*	2.0 *15*	1729.01	(7/2$^+$,9/2$^+$)	1439.71	(9/2$^+$)				
325.53 *13*	0.95 *17*	1439.71	(9/2$^+$)	1114.84	(9/2$^+$)				E_γ: No final level within 0.50 keV.
330.90 *23*	1.11 *23*	2060.01	(7/2$^+$,9/2$^+$,11/2$^+$)	1729.01	(7/2$^+$,9/2$^+$)				
344.4 *7*	1.6 *6*	1114.84	(9/2$^+$)	771.00	9/2$^+$	[M1+E2]		0.0187 *20*	α(K)=0.0161 *16*; α(L)=0.0021 *4*; α(M)=0.00041 *8*; α(N+..)=7.6×10^{-5} *12* α(N)=7.2×10^{-5} *12*; α(O)=3.71×10^{-6} *20*
392.21 *13*	0.90 *7*	1163.29	(11/2)$^-$	771.00	9/2$^+$	E1(+M2)	0.033 *12*	0.00390 *7*	α=0.00390 *7*; α(K)=0.00341 *6*; α(L)=0.000404 *8*; α(M)=7.72×10^{-5} *14*; α(N+..)=1.45×10^{-5} *3* α(N)=1.370×10^{-5} *25*; α(O)=7.71×10^{-7} *14*
416.44 *25*	0.58 *8*	1579.23	(9/2$^+$)	1163.29	(11/2)$^-$	[E1]		0.00332 *5*	α=0.00332 *5*; α(K)=0.00290 *4*; α(L)=0.000343 *5*; α(M)=6.55×10^{-5} *10*; α(N+..)=1.228×10^{-5} *18* α(N)=1.162×10^{-5} *17*; α(O)=6.57×10^{-7} *10*
451.7 *4*	0.23 *7*	2060.01	(7/2$^+$,9/2$^+$,11/2$^+$)	1608.78	(5/2$^+$,7/2,9/2$^+$)				
473.09 *14*	1.95 *17*	604.39	(7/2)$^+$	131.18	7/2$^+$	[M1+E2]		0.00772 *15*	α=0.00772 *15*; α(K)=0.00668 *11*; α(L)=0.00084 *5*; α(M)=0.000162 *10*; α(N+..)=3.02×10^{-5} *15* α(N)=2.87×10^{-5} *15*; α(O)=1.56×10^{-6} *5*
496.0 *6*	0.37 *23*	1327.97	(5/2$^+$)	832.52	9/2$^+$	[E2]		0.00681 *10*	α=0.00681 *10*; α(K)=0.00587 *9*; α(L)=0.000770 *12*; α(M)=0.0001483 *22*; α(N+..)=2.74×10^{-5} *4* α(N)=2.61×10^{-5} *4*; α(O)=1.333×10^{-6} *20*
510.67 *17*	8 *4*	771.00	9/2$^+$	260.38	(7/2)$^+$	M1		0.00633 *9*	α=0.00633 *9*; α(K)=0.00552 *8*; α(L)=0.000660 *10*; α(M)=0.0001264 *18*; α(N+..)=2.39×10^{-5} *4* α(N)=2.26×10^{-5} *4*; α(O)=1.326×10^{-6} *19* I_γ: from Iγ/Iγ(639.74)=0.67 *34* from 1978Ge05 in (α,3nγ).
535.42 *14*	0.70 *16*	1139.59	(7/2$^+$)	604.39	(7/2)$^+$	[M1+E2]		0.00556 *12*	α=0.00556 *12*; α(K)=0.00483 *12*; α(L)=0.000600 *15*; α(M)=0.000115 *3*; α(N+..)=2.16×10^{-5} *4* α(N)=2.04×10^{-5} *5*; α(O)=1.13×10^{-6} *6*

$^{105}_{48}Cd_{57}$-5

^{105}In ε decay (5.07 min) 1984Ve01,1989Bu29 (continued)

γ(^{105}Cd) (continued)

E_γ[‡]	I_γ[‡&]	E_i(level)	J_i^π	E_f	J_f^π	Mult.[#]	δ[#]	α[†]	Comments
554.5 *5*	1.0 *5*	1386.69	(7/2$^+$,9/2$^+$)	832.52	9/2$^+$				
570.40 *16*	4.0 *7*	766.49	(5/2$^+$)	196.17	(5/2$^+$)	(E2)		0.00460 *7*	α=0.00460 *7*; α(K)=0.00397 *6*; α(L)=0.000509 *8*; α(M)=9.80×10^{-5} *14*; α(N+..)=1.82×10^{-5} *3* α(N)=1.729×10^{-5} *25*; α(O)=9.09×10^{-7} *13*
604.12 *16*	22.3 *12*	604.39	(7/2)$^+$	0.0	5/2$^+$	M1+E2	−0.9 *5*	0.00410 *11*	α(K)exp=0.0047 *12* (1976NeZU) α=0.00410 *11*; α(K)=0.00356 *11*; α(L)=0.000436 *7*; α(M)=8.37×10^{-5} *13*; α(N+..)=1.57×10^{-5} *3* α(N)=1.488×10^{-5} *24*; α(O)=8.4×10^{-7} *4*
607.8 *4*	1.6 *15*	1439.71	(9/2$^+$)	832.52	9/2$^+$				
620.03 *18*	0.53 *8*	1386.69	(7/2$^+$,9/2$^+$)	766.49	(5/2$^+$)				
635.44 *17*	1.10 *21*	766.49	(5/2$^+$)	131.18	7/2$^+$	[M1+E2]		0.00359 *17*	α=0.00359 *17*; α(K)=0.00313 *16*; α(L)=0.000382 *9*; α(M)=7.34×10^{-5} *16*; α(N+..)=1.38×10^{-5} *4* α(N)=1.30×10^{-5} *4*; α(O)=7.3×10^{-7} *6* Eγ: from level energy differences.
636.1 *4*	0.5 *4*	832.52	9/2$^+$	196.17	(5/2$^+$)	[E2]		0.00343 *5*	α=0.00343 *5*; α(K)=0.00297 *5*; α(L)=0.000375 *6*; α(M)=7.20×10^{-5} *11*; α(N+..)=1.341×10^{-5} *19* α(N)=1.273×10^{-5} *18*; α(O)=6.82×10^{-7} *10* Eγ: from level energy differences.
637.5 *6*	0.9 *8*	2365.53	(7/2$^+$,9/2$^+$)	1729.01	(7/2$^+$,9/2$^+$)				Eγ: from level energy differences.
639.74 *13*	13.1 *11*	771.00	9/2$^+$	131.18	7/2$^+$	M1+E2	−4.3 *6*	0.00339 *5*	α=0.00339 *5*; α(K)=0.00294 *5*; α(L)=0.000370 *6*; α(M)=7.10×10^{-5} *10*; α(N+..)=1.324×10^{-5} *19* α(N)=1.256×10^{-5} *18*; α(O)=6.78×10^{-7} *10*
642.40 *25*	3.9 *8*	2371.90	(7/2$^+$,9/2$^+$)	1729.01	(7/2$^+$,9/2$^+$)				
662.49 *12*	1.33 *10*	1495.24	(7/2$^+$,9/2$^+$)	832.52	9/2$^+$				
668.30 *14*	19.0 *9*	799.79	11/2$^+$	131.18	7/2$^+$	E2		0.00317 *17*	α=0.00317 *17*; α(K)=0.00276 *16*; α(L)=0.000336 *11*; α(M)=6.45×10^{-5} *19*; α(N+..)=1.21×10^{-5} *5* α(N)=1.15×10^{-5} *4*; α(O)=6.5×10^{-7} *5*
673.4 *4*	4.2 *9*	1439.71	(9/2$^+$)	766.49	(5/2$^+$)				
701.26 *14*	2.75 *17*	832.52	9/2$^+$	131.18	7/2$^+$	M1+E2	2.0 *4*	0.00272 *5*	α=0.00272 *5*; α(K)=0.00237 *4*; α(L)=0.000292 *5*; α(M)=5.60×10^{-5} *9*; α(N+..)=1.049×10^{-5} *17* α(N)=9.94×10^{-6} *16*; α(O)=5.51×10^{-7} *11*
707.6 *5*	0.6 *3*	1822.78	(7/2$^+$,9/2$^+$,11/2$^+$)	1114.84	(9/2$^+$)				
725.3 *9*	0.7 *3*	1327.97	(5/2$^+$)	604.39	(7/2)$^+$	[M1+E2]		0.00260 *17*	α=0.00260 *17*; α(K)=0.00226 *15*; α(L)=0.000274 *12*; α(M)=5.25×10^{-5} *22*; α(N+..)=9.9×10^{-6} *5* α(N)=9.3×10^{-6} *5*; α(O)=5.3×10^{-7} *5*
730.04 *24*	0.78 *12*	2365.53	(7/2$^+$,9/2$^+$)	1635.50	(5/2$^+$)				
754.5 *4*	1.2 *5*	2142.77	(7/2$^+$,9/2$^+$)	1386.69	(7/2$^+$,9/2$^+$)				
766.85 *18*	2.7 *8*	766.49	(5/2$^+$)	0.0	5/2$^+$	[M1+E2]		0.00227 *16*	α=0.00227 *16*; α(K)=0.00198 *14*; α(L)=0.000239 *12*; α(M)=4.58×10^{-5} *22*; α(N+..)=8.6×10^{-6} *5* α(N)=8.2×10^{-6} *5*; α(O)=4.7×10^{-7} *4*
770.75 *19*	4.5 *4*	771.00	9/2$^+$	0.0	5/2$^+$	E2		0.00210 *3*	α=0.00210 *3*; α(K)=0.00182 *3*; α(L)=0.000225 *4*;

$^{105}_{48}Cd_{57}$-6

^{105}In ε decay (5.07 min) 1984Ve01,1989Bu29 (continued)

γ(^{105}Cd) (continued)

E_γ[‡]	I_γ[‡&]	E_i(level)	J_i^π	E_f	J_f^π	Mult.[#]	α[†]	Comments
								α(M)=4.32×10^{-5} *6*; α(N+..)=8.08×10^{-6} *12* α(N)=7.65×10^{-6} *11*; α(O)=4.22×10^{-7} *6*
782.0 *4*	1.9 *3*	1386.69	(7/2$^+$,9/2$^+$)	604.39	(7/2)$^+$			
792.84[a] *24*	0.9[a] *3*	1625.52	(7/2$^+$,9/2$^+$)	832.52	9/2$^+$			
792.84[a] *24*	0.9[a] *3*	2371.90	(7/2$^+$,9/2$^+$)	1579.23	(9/2$^+$)			
792.84[ab] *24*	0.9[a] *3*	3165.42	(7/2$^+$,9/2$^+$)	2371.90	(7/2$^+$,9/2$^+$)			
799.73 *14*	1.48 *11*	3165.42	(7/2$^+$,9/2$^+$)	2365.53	(7/2$^+$,9/2$^+$)			
808.16 *12*	2.11 *13*	1579.23	(9/2$^+$)	771.00	9/2$^+$	[M1+E2]	0.00201 *15*	α=0.00201 *15*; α(K)=0.00175 *13*; α(L)=0.000211 *12*; α(M)=4.03×10^{-5} *22*; α(N+..)=7.6×10^{-6} *5* α(N)=7.2×10^{-6} *4*; α(O)=4.1×10^{-7} *4*
823.6 *3*	0.46 *9*	2552.46	(7/2$^+$,9/2$^+$,11/2$^+$)	1729.01	(7/2$^+$,9/2$^+$)			
832.58 *18*	17.7 *12*	832.52	9/2$^+$	0.0	5/2$^+$	E2	0.001741 *25*	α=0.001741 *25*; α(K)=0.001514 *22*; α(L)=0.000185 *3*; α(M)=3.55×10^{-5} *5*; α(N+..)=6.66×10^{-6} *10* α(N)=6.31×10^{-6} *9*; α(O)=3.52×10^{-7} *5*
834.6 *5*	0.69 *20*	1439.71	(9/2$^+$)	604.39	(7/2)$^+$			
838.1 *5*	1.5 *6*	1608.78	(5/2$^+$,7/2,9/2$^+$)	771.00	9/2$^+$			
841.6 *4*	0.48 *14*	1608.78	(5/2$^+$,7/2,9/2$^+$)	766.49	(5/2$^+$)			
854.68 *14*	3.23 *22*	1114.84	(9/2$^+$)	260.38	(7/2)$^+$	(M1+E2)	0.00176 *13*	α=0.00176 *13*; α(K)=0.00154 *12*; α(L)=0.000184 *11*; α(M)=3.53×10^{-5} *21*; α(N+..)=6.6×10^{-6} *5* α(N)=6.3×10^{-6} *4*; α(O)=3.6×10^{-7} *4*
[x]866.87 *14*	1.1 *3*							
[x]875.6 *3*	2.34 *21*							
879.8 *5*	0.38 *13*	1139.59	(7/2$^+$)	260.38	(7/2)$^+$	[M1+E2]	0.00165 *13*	α=0.00165 *13*; α(K)=0.00144 *11*; α(L)=0.000172 *11*; α(M)=3.30×10^{-5} *20*; α(N+..)=6.2×10^{-6} *4* α(N)=5.9×10^{-6} *4*; α(O)=3.4×10^{-7} *3*
890.7 *3*	2.31 *20*	1495.24	(7/2$^+$,9/2$^+$)	604.39	(7/2)$^+$			
896.4	2.7 *16*	1729.01	(7/2$^+$,9/2$^+$)	832.52	9/2$^+$	(E2)	0.001463 *21*	α=0.001463 *21*; α(K)=0.001273 *18*; α(L)=0.0001547 *22*; α(M)=2.97×10^{-5} *5*; α(N+..)=5.56×10^{-6} α(N)=5.27×10^{-6} *8*; α(O)=2.96×10^{-7} *5*
[x]911.4 *4*	1.4 *3*							
943.5 *4*	1.78 *16*	1139.59	(7/2$^+$)	196.17	(5/2$^+$)	[M1+E2]	0.00141 *11*	α=0.00141 *11*; α(K)=0.00123 *10*; α(L)=0.000146 *10*; α(M)=2.80×10^{-5} *18*; α(N+..)=5.3×10^{-6} *4* α(N)=5.0×10^{-6} *4*; α(O)=2.9×10^{-7} *3*
960.9 *6*	0.6 *5*	1729.01	(7/2$^+$,9/2$^+$)	766.49	(5/2$^+$)			
966.3 *4*	0.92 *18*	3337.8	(7/2$^+$,9/2$^+$,11/2$^+$)	2371.90	(7/2$^+$,9/2$^+$)			
[x]977.03 *17*	1.07 *13*							
983.85 *17*	0.77 *17*	1114.84	(9/2$^+$)	131.18	7/2$^+$	[M1+E2]	0.00128 *10*	α=0.00128 *10*; α(K)=0.00112 *9*; α(L)=0.000133 *9*; α(M)=2.54×10^{-5} *17*; α(N+..)=4.8×10^{-6} *4* α(N)=4.5×10^{-6} *4*; α(O)=2.64×10^{-7} *24*
[x]994.8 *4*	0.31 *9*							
1004.41 *17*	0.86 *9*	1608.78	(5/2$^+$,7/2,9/2$^+$)	604.39	(7/2)$^+$			
1033.04 *21*	0.88 *17*	1163.29	(11/2)$^-$	131.18	7/2$^+$	[M2]	0.00297 *5*	α=0.00297 *5*; α(K)=0.00259 *4*; α(L)=0.000314 *5*;

$^{105}_{48}Cd_{57}$-7

^{105}In ε decay (5.07 min) 1984Ve01,1989Bu29 (continued)

γ(^{105}Cd) (continued)

E_γ[‡]	I_γ[‡&]	E_i(level)	J_i^π	E_f	J_f^π	Mult.[#]	α[†]	Comments
								α(M)=6.04×10^{-5} *9*; α(N+..)=1.142×10^{-5} *16* α(N)=1.079×10^{-5} *16*; α(O)=6.33×10^{-7} *9* E_γ: No final level within 0.75 keV.
1040.7 *3*	1.20 *17*	2677.27	(7/2$^+$,9/2$^+$)	1635.50	(5/2$^+$)			
1051.41 *20*	1.18 *12*	1182.49	(3/2$^+$ to 9/2$^+$)	131.18	7/2$^+$			
1057.07 *14*	1.18 *12*	1822.78	(7/2$^+$,9/2$^+$,11/2$^+$)	766.49	(5/2$^+$)			E_γ: No final level within 0.55 keV.
1068.2 *3*	1.03 *20*	2677.27	(7/2$^+$,9/2$^+$)	1608.78	(5/2$^+$,7/2,9/2$^+$)			
1095.36 *11*	1.3 *3*	2277.85	(7/2$^+$,9/2$^+$,11/2$^+$)	1182.49	(3/2$^+$ to 9/2$^+$)			
1098.33 *23*	0.92 *10*	2677.27	(7/2$^+$,9/2$^+$)	1579.23	(9/2$^+$)			
1115.2 *3*	1.92 *17*	1114.84	(9/2$^+$)	0.0	5/2$^+$	[E2]	0.000899 *13*	α=0.000899 *13*; α(K)=0.000783 *11*; α(L)=9.34×10^{-5} *13*; α(M)=1.79×10^{-5} *3*; α(N+..)=4.22×10^{-6} *6* α(N)=3.18×10^{-6} *5*; α(O)=1.83×10^{-7} *3*; α(IPF)=8.56×10^{-7} *15*
1123.7 *11*	0.4 *3*	1729.01	(7/2$^+$,9/2$^+$)	604.39	(7/2)$^+$			
1126.1 *4*	3.4 *3*	1386.69	(7/2$^+$,9/2$^+$)	260.38	(7/2)$^+$			
1139.06 *19*	3.5 *6*	1139.59	(7/2$^+$)	0.0	5/2$^+$	[M1+E2]	0.00093 *8*	α=0.00093 *8*; α(K)=0.00081 *7*; α(L)=9.6×10^{-5} *7*; α(M)=1.83×10^{-5} *13*; α(N+..)=5.09×10^{-6} *13* α(N)=3.26×10^{-6} *23*; α(O)=1.91×10^{-7} *17*; α(IPF)=1.63×10^{-6} *14*
1161.0 *4*	1.3 *5*	2277.85	(7/2$^+$,9/2$^+$,11/2$^+$)	1114.84	(9/2$^+$)			E_γ: No final level within 1.6 keV.
1176.9 *4*	0.51 *12*	1439.71	(9/2$^+$)	260.38	(7/2)$^+$			E_γ: No final level within 1.7 keV.
1182.3 *3*	1.78 *23*	1182.49	(3/2$^+$ to 9/2$^+$)	0.0	5/2$^+$			
1190.34 *15*	3.6 *4*	1386.69	(7/2$^+$,9/2$^+$)	196.17	(5/2$^+$)			
1216.30 *23*	0.68 *10*	1822.78	(7/2$^+$,9/2$^+$,11/2$^+$)	604.39	(7/2)$^+$			E_γ: No final level within 1.0 keV.
1237.91 *11*	2.3 *3*	2677.27	(7/2$^+$,9/2$^+$)	1439.71	(9/2$^+$)			
1244.1[b] *2*	0.4 *2*	2853.56	(7/2$^+$,9/2$^+$)	1608.78	(5/2$^+$,7/2,9/2$^+$)			
1255.64 *16*	4.2 *7*	1386.69	(7/2$^+$,9/2$^+$)	131.18	7/2$^+$			
1299.6 *3*	0.34 *9*	1495.24	(7/2$^+$,9/2$^+$)	196.17	(5/2$^+$)			
1308.72 *22*	1.79 *14*	1439.71	(9/2$^+$)	131.18	7/2$^+$			
1348.49 *20*	2.4 *3*	1608.78	(5/2$^+$,7/2,9/2$^+$)	260.38	(7/2)$^+$			
1379.1 *4*	0.74 *19*	3202.97	(9/2$^+$)	1822.78	(7/2$^+$,9/2$^+$,11/2$^+$)			
1386.98 *24*	8.4 *9*	1386.69	(7/2$^+$,9/2$^+$)	0.0	5/2$^+$			
1477.0 *4*	0.86 *12*	1608.78	(5/2$^+$,7/2,9/2$^+$)	131.18	7/2$^+$			
1494.45 *21*	1.5 *4*	1625.52	(7/2$^+$,9/2$^+$)	131.18	7/2$^+$			
1507.7 *4*	0.7 *3*	2307.96	(7/2$^+$,9/2$^+$,11/2$^+$)	799.79	11/2$^+$			
1538.55 *15*	1.7 *3*	2142.77	(7/2$^+$,9/2$^+$)	604.39	(7/2)$^+$			
1589.9 *3*	0.4 *2*	2193.70	(7/2$^+$,9/2$^+$)	604.39	(7/2)$^+$			
1608.8 *3*	0.75 *11*	1608.78	(5/2$^+$,7/2,9/2$^+$)	0.0	5/2$^+$			
1625.8 *6*	0.79 *24*	1625.52	(7/2$^+$,9/2$^+$)	0.0	5/2$^+$			
1674.6 *3*	0.56 *16*	2277.85	(7/2$^+$,9/2$^+$,11/2$^+$)	604.39	(7/2)$^+$			
[x]1698.4 *4*	0.9 *4*							

^{105}In ε decay (5.07 min) 1984Ve01,1989Bu29 (continued)

γ(^{105}Cd) (continued)

E_γ‡	I_γ‡&	E_i(level)	J_i^π	E_f	J_f^π	Mult.#	α†	Comments
1761.3 *4*	0.93 *11*	2365.53	(7/2$^+$,9/2$^+$)	604.39	(7/2)$^+$			
x1770.3 *5*	0.92 *16*							
1779.4 *3*	1.77 *24*	3165.42	(7/2$^+$,9/2$^+$)	1386.69	(7/2$^+$,9/2$^+$)			
1799.3 *7*	0.52 *21*	2060.01	(7/2$^+$,9/2$^+$,11/2$^+$)	260.38	(7/2)$^+$			
1876.99 *19*	2.3 *3*	2677.27	(7/2$^+$,9/2$^+$)	799.79	11/2$^+$			
1883.0 *3*	1.9 *5*	2142.77	(7/2$^+$,9/2$^+$)	260.38	(7/2)$^+$			
1906.3 *8*	0.98 *19*	2677.27	(7/2$^+$,9/2$^+$)	771.00	9/2$^+$			
1910.4 *4*	1.07 *17*	2677.27	(7/2$^+$,9/2$^+$)	766.49	(5/2$^+$)			
1928.5 *8*	0.24 *10*	2060.01	(7/2$^+$,9/2$^+$,11/2$^+$)	131.18	7/2$^+$			
1947.9 *3*	0.60 *9*	2552.46	(7/2$^+$,9/2$^+$,11/2$^+$)	604.39	(7/2)$^+$			
x1990.20 *21*	0.70 *11*							
x1998.0 *4*	0.90 *20*							
2012.4 *4*	0.86 *25*	2142.77	(7/2$^+$,9/2$^+$)	131.18	7/2$^+$			
2016.0 *4*	0.53 *19*	2277.85	(7/2$^+$,9/2$^+$,11/2$^+$)	260.38	(7/2)$^+$			E_γ: No final level within 1.3 keV.
2040.10 *23*	0.39 *14*	3202.97	(9/2$^+$)	1163.29	(11/2)$^-$	[E1]	0.000780 *11*	α=0.000780 *11*; α(K)=0.0001260 *18*; α(L)=1.435×10^{-5} *20*; α(M)=2.73×10^{-6} *4*; α(N+..)=0.000636 α(N)=4.89×10^{-7} *7*; α(O)=2.91×10^{-8} *4*; α(IPF)=0.000636 *9*
2047.72 *24*	2.0 *5*	2307.96	(7/2$^+$,9/2$^+$,11/2$^+$)	260.38	(7/2)$^+$			
2063.4@b *8*	2.2 *4*	2193.70	(7/2$^+$,9/2$^+$)	131.18	7/2$^+$			
2072.4 *3*	0.60 *15*	2677.27	(7/2$^+$,9/2$^+$)	604.39	(7/2)$^+$			
2105.4 *4*	0.74 *21*	2365.53	(7/2$^+$,9/2$^+$)	260.38	(7/2)$^+$			
2176.3 *3*	1.20 *13*	2371.90	(7/2$^+$,9/2$^+$)	196.17	(5/2$^+$)			
2193.4@ *2*	0.8 *4*	2193.70	(7/2$^+$,9/2$^+$)	0.0	5/2$^+$			
2223.2 *4*	1.10 *13*	2420.12	(7/2$^+$,9/2$^+$)	196.17	(5/2$^+$)			
2240.8 *4*	0.80 *25*	2371.90	(7/2$^+$,9/2$^+$)	131.18	7/2$^+$			
x2259.0 *7*	0.54 *11*							
2364.3 *5*	0.40 *16*	2365.53	(7/2$^+$,9/2$^+$)	0.0	5/2$^+$			
2371.0ab *5*	1.16a *13*	2371.90	(7/2$^+$,9/2$^+$)	0.0	5/2$^+$			
2371.0ab *5*	1.16a *13*	3202.97	(9/2$^+$)	832.52	9/2$^+$	[M1+E2]	0.000686 *10*	α=0.000686 *10*; α(K)=0.000187 *6*; α(L)=2.15×10^{-5} *7*; α(M)=4.11×10^{-6} *13*; α(N+..)=0.000473 *11* α(N)=7.35×10^{-7} *23*; α(O)=4.40×10^{-8} *16*; α(IPF)=0.000472 *11*
2419.2 *4*	0.44 *17*	2420.12	(7/2$^+$,9/2$^+$)	0.0	5/2$^+$			
2421.3 *20*	0.39 *18*	2552.46	(7/2$^+$,9/2$^+$,11/2$^+$)	131.18	7/2$^+$			
x2523.9 *5*	0.70 *20*							
x2551.0 *7*	0.67 *14*							
2596.7 *5*	0.28 *14*	3202.97	(9/2$^+$)	604.39	(7/2)$^+$	[M1+E2]	0.000760 *12*	α=0.000760 *12*; α(K)=0.000158 *4*; α(L)=1.82×10^{-5} *5*; α(M)=3.47×10^{-6} *9*; α(N+..)=0.000580 *12* α(N)=6.21×10^{-7} *16*; α(O)=3.72×10^{-8} *11*; α(IPF)=0.000579 *12* E_γ: No final level within 1.7 keV.

$^{105}_{48}Cd_{57}$-9

^{105}In ε decay (5.07 min) 1984Ve01,1989Bu29 (continued)

γ(^{105}Cd) (continued)

E_γ ‡	I_γ ‡&	E_i(level)	J_i^π	E_f	J_f^π	Mult.#	α†	Comments
[x]2721.7 *6*	0.9 *3*							
2722.3[@] *2*	1.8 *3*	2853.56	(7/2$^+$,9/2$^+$)	131.18	7/2$^+$			
2854.1[@] *8*	0.7 *2*	2853.56	(7/2$^+$,9/2$^+$)	0.0	5/2$^+$			
2942.1 *7*	0.12 *6*	3202.97	(9/2$^+$)	260.38	(7/2)$^+$	[M1+E2]	0.000881 *14*	α=0.000881 *14*; α(K)=0.0001265 *21*; α(L)=1.449×10^{-5} *25*; α(M)=2.77×10^{-6} *5*; α(N+..)=0.000737 α(N)=4.95×10^{-7} *9*; α(O)=2.97×10^{-8} *6*; α(IPF)=0.000737 *12*
3072.8 *4*	0.72 *23*	3202.97	(9/2$^+$)	131.18	7/2$^+$	[M1+E2]	0.000927 *14*	α=0.000927 *14*; α(K)=0.0001171 *18*; α(L)=1.341×10^{-5} *21*; α(M)=2.56×10^{-6} *4*; α(N+..)=0.000794 α(N)=4.58×10^{-7} *7*; α(O)=2.75×10^{-8} *5*; α(IPF)=0.000794 *13*
3076.5 *6*	0.35 *14*	3337.8	(7/2$^+$,9/2$^+$,11/2$^+$)	260.38	(7/2)$^+$			
[x]3115.4 *10*	0.59 *9*							
3206.3 *9*	1.3 *3*	3337.8	(7/2$^+$,9/2$^+$,11/2$^+$)	131.18	7/2$^+$			

† Additional information 1.
‡ From 1984Ve01.
# From the adopted gammas.
@ Gammas reported by 1980Wi20 are not confirmed by 1984Ve01.
& For absolute intensity per 100 decays, multiply by 0.413 *5*.
[a] Multiply placed with undivided intensity.
[b] Placement of transition in the level scheme is uncertain.
[x] γ ray not placed in level scheme.

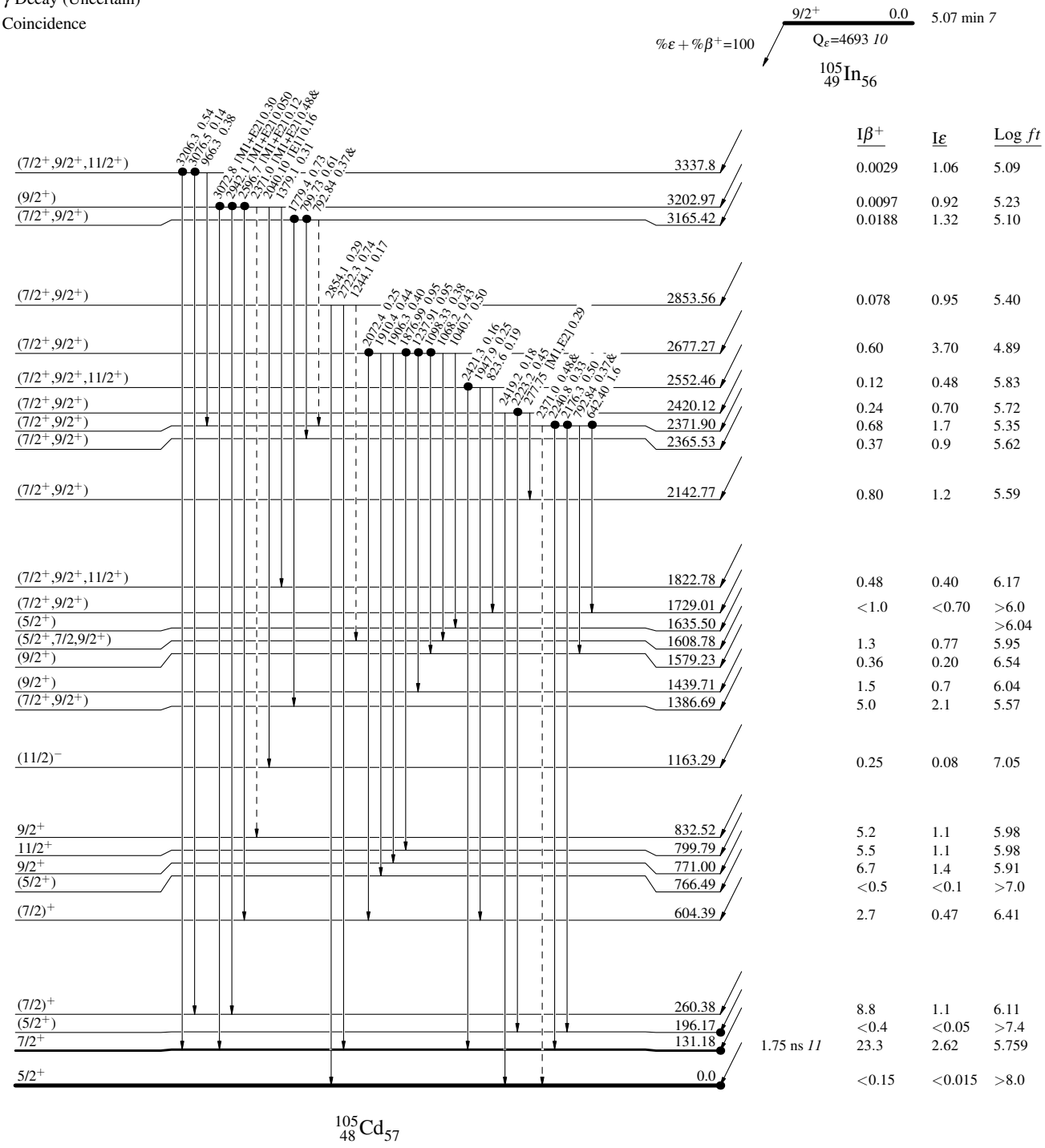
$^{105}_{48}Cd_{57}$-10

^{105}In ε decay (5.07 min) 1984Ve01,1989Bu29

Decay Scheme

Intensities: I_γ per 100 parent decays
& Multiply placed: undivided intensity given

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



		Iβ+	Iε	Log *ft*
(7/2+,9/2+,11/2+)	3337.8	0.0029	1.06	5.09
(9/2+)	3202.97	0.0097	0.92	5.23
(7/2+,9/2+)	3165.42	0.0188	1.32	5.10
(7/2+,9/2+)	2853.56	0.078	0.95	5.40
(7/2+,9/2+)	2677.27	0.60	3.70	4.89
(7/2+,9/2+,11/2+)	2552.46	0.12	0.48	5.83
(7/2+,9/2+)	2420.12	0.24	0.70	5.72
(7/2+,9/2+)	2371.90	0.68	1.7	5.35
(7/2+,9/2+)	2365.53	0.37	0.9	5.62
(7/2+,9/2+)	2142.77	0.80	1.2	5.59
(7/2+,9/2+,11/2+)	1822.78	0.48	0.40	6.17
(7/2+,9/2+)	1729.01	<1.0	<0.70	>6.0
(5/2+)	1635.50			>6.04
(5/2+,7/2,9/2+)	1608.78	1.3	0.77	5.95
(9/2+)	1579.23	0.36	0.20	6.54
(9/2+)	1439.71	1.5	0.7	6.04
(7/2+,9/2+)	1386.69	5.0	2.1	5.57
(11/2)−	1163.29	0.25	0.08	7.05
9/2+	832.52	5.2	1.1	5.98
11/2+	799.79	5.5	1.1	5.98
9/2+	771.00	6.7	1.4	5.91
(5/2+)	766.49	<0.5	<0.1	>7.0
(7/2)+	604.39	2.7	0.47	6.41
(7/2)+	260.38	8.8	1.1	6.11
(5/2+)	196.17	<0.4	<0.05	>7.4
7/2+	131.18	1.75 ns *11*	23.3	2.62	5.759
5/2+	0.0		<0.15	<0.015	>8.0

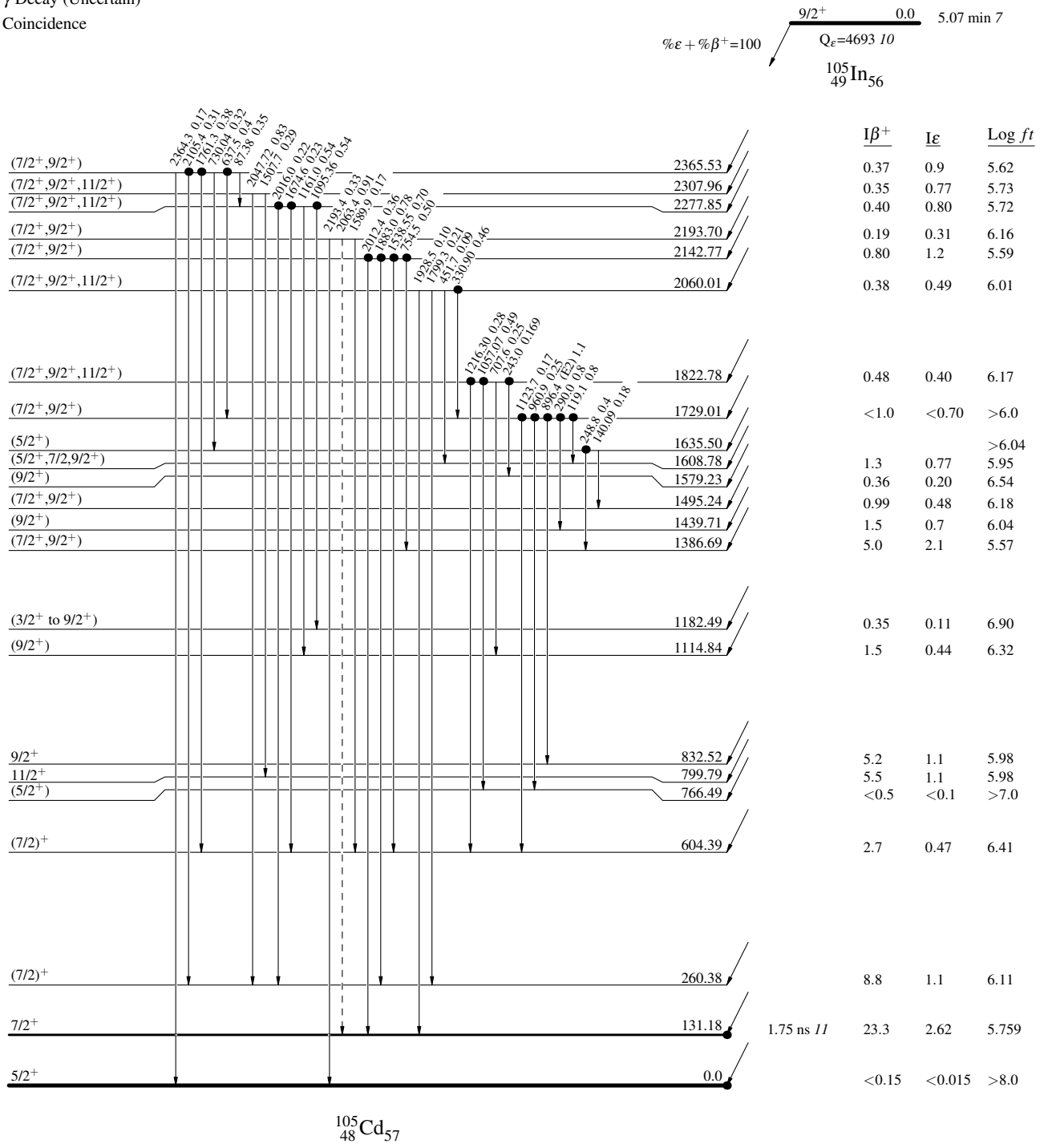
$^{105}_{48}Cd_{57}$

^{105}In ε decay (5.07 min) 1984Ve01,1989Bu29

Decay Scheme (continued)

Intensities: I_γ per 100 parent decays
& Multiply placed: undivided intensity given

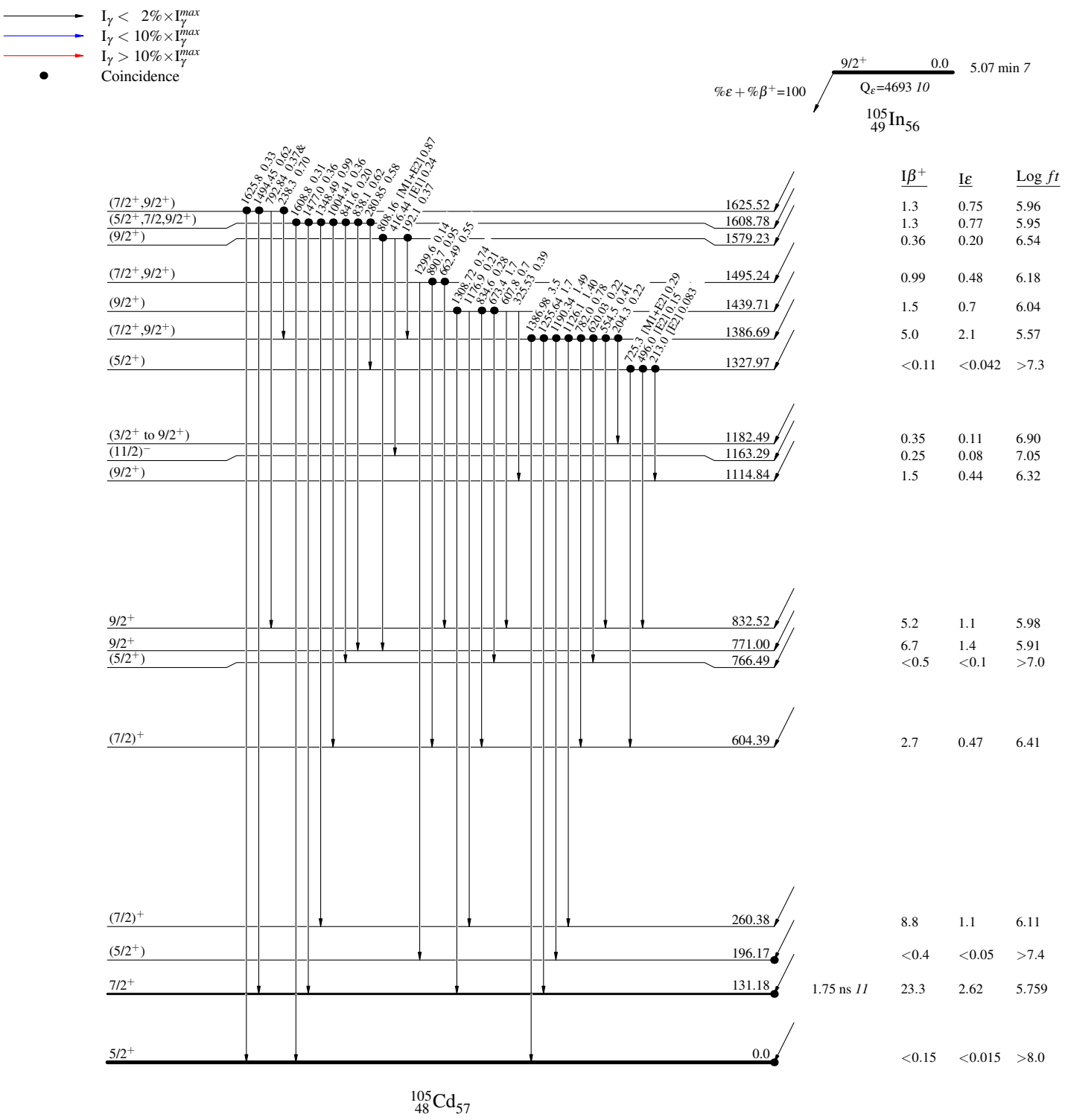
Legend
- $I_\gamma < 2\% \times I_\gamma^{max}$
- $I_\gamma < 10\% \times I_\gamma^{max}$
- $I_\gamma > 10\% \times I_\gamma^{max}$
- γ Decay (Uncertain)
- Coincidence



^{105}In ε decay (5.07 min) 1984Ve01,1989Bu29

Decay Scheme (continued)

Intensities: I_γ per 100 parent decays
& Multiply placed: undivided intensity given



	Iβ+	Iε	Log *ft*
1625.52	1.3	0.75	5.96
1608.78	1.3	0.77	5.95
1579.23	0.36	0.20	6.54
1495.24	0.99	0.48	6.18
1439.71	1.5	0.7	6.04
1386.69	5.0	2.1	5.57
1327.97	<0.11	<0.042	>7.3
1182.49	0.35	0.11	6.90
1163.29	0.25	0.08	7.05
1114.84	1.5	0.44	6.32
832.52	5.2	1.1	5.98
771.00	6.7	1.4	5.91
766.49	<0.5	<0.1	>7.0
604.39	2.7	0.47	6.41
260.38	8.8	1.1	6.11
196.17	<0.4	<0.05	>7.4
131.18	23.3	2.62	5.759
0.0	<0.15	<0.015	>8.0

^{105}In ε decay (5.07 min) 1984Ve01,1989Bu29

Decay Scheme (continued)

Intensities: I_γ per 100 parent decays
& Multiply placed: undivided intensity given