^{97}Ag ε decay (25.5 s) 1999Hu10,1997Sc30,1982Ku15

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	N. Nica	NDS 111, 525 (2010)	19-Nov-2009

Parent: ^{97}Ag: E=0.0; J^π=(9/2$^+$); $T_{1/2}$=25.5 s *3*; Q(ε)=6.98×10^3 *11*; %ε+%β^+ decay=100.0

^{97}Ag-E,J^π,$T_{1/2}$: ADOPTED values for ^{97}Ag.

^{97}Ag-Q(ε): From 2003Au03 (measured by 1999Hu10).

Others: 1978Hu11.

2001HU04,1999Hu10: ^{60}Ni(^{40}Ca,1p2n) E=4.0 and 4.3 MeV/nucleon, a cube-like array of 6 Euroball-Cluster Ge detectors. Measured Eγ, Iγ.

1997Sc30: ^{60}Ni(^{40}Ca,1p2n) E=4.1 MeV/nucleon, Ge(Li) detector. Measured Eγ, Iγ.

1982Ku15: ^{58}Ni, ^{60}Ni, ^{62}Ni, ^{63}Cu, ^{65}Cu bombarded with ^{40}Ca E=4.0 MeV/u, mass separation, Ge(Li) detector. Measured Eγ, Iγ, observed Pd K x ray.

1978Hu11: ^{92}Mo(^{14}N,2p7n) E=100-125 MeV, Ge(Li) detector. Measured Eγ, Iγ, observed Pd x-rays.

Data are taken from 2001Hu04 and 1999Hu10, unless noted otherwise.

^{97}Pd Levels

This evaluation assumed the J^π values adopted previously by 2001Hu04, except for the fact that unlike 2001Hu04, we consider all J^π values As tentative, which derives from tentative J^π's for both ^{97}Ag and ^{97}Pd g.s.'s.

E(level)[†]	J^π[‡]	$T_{1/2}$	Comments
0.0	(5/2$^+$)	3.10 min *9*	%ε+%β^+=100 %ε+%β^+: adopted value. $T_{1/2}$: from Adopted Levels.
686.67 *3*	(7/2$^+$)		
774.98 *7*	(1/2$^+$)[#]		
1043.73 *5*	(7/2$^+$)		
1294.65 *4*	(9/2$^+$)[@]		
1537.69 *4*	(7/2$^+$,9/2$^+$)		
1712.03 *8*	(5/2$^+$)		
1782.32 *6*	(5/2$^+$)		
1881.60 *4*	(13/2$^+$)[@]		
1936.04 *11*			
1943.50 *4*	(11/2$^+$)[&]		
1998.70 *5*	(5/2$^+$,7/2$^+$,9/2$^+$)		
2116.98 *4*	(7/2$^+$,9/2$^+$)		
2131.67 *9*			
2134.66 *4*	(7/2$^+$,9/2$^+$)		
2137.4 *3*			
2141.14 *4*	(13/2$^+$)[&]		
2174.78 *7*	(5/2$^+$,7/2$^+$,9/2$^+$)		
2176.25 *4*	(9/2$^+$)[&]		
2231.57 *4*	(11/2$^+$,13/2$^+$)		
2244.26 *9*	(17/2$^+$)[@]	2.3 ns *5*	
2283.43 *6*	(5/2$^+$)		
2344.84 *5*	(7/2$^+$,9/2$^+$)		
2371.67 *6*	(15/2$^+$)		
2375.77 *5*	(9/2$^+$,11/2$^+$,13/2$^+$)		
2376.64 *5*	(5/2$^+$,7/2$^+$,9/2$^+$)		
2395.71 *5*	(11/2$^+$)		
2417.10 *11*			
2446.90 *21*			

Continued on next page (footnotes at end of table)

^{97}Ag ε decay (25.5 s) 1999Hu10,1997Sc30,1982Ku15 (continued)

^{97}Pd Levels (continued)

E(level)†	Jπ‡	E(level)†	Jπ‡	E(level)†	Jπ‡
2481.91 *8*	(13/2+)&	3295.73 *5*	(11/2+)	4040.22 *5*	(7/2+,9/2+)
2496.01 *8*	(7/2+,9/2+)	3303.7 *3*		4053.06 *7*	(7/2+,9/2+,11/2+)
2500.38 *8*	(15/2+)	3329.83 *7*		4068.54 *17*	
2506.00 *4*	(9/2+)	3351.14 *5*	(11/2+)	4105.37 *7*	(7/2+,9/2+)
2515.2 *3*		3353.78[a] *6*	(7/2+,9/2+)	4123.28 *9*	(9/2+)
2583.31 *8*		3362.37 *10*		4125.50 *6*	(11/2+)
2587.64 *5*	(13/2+)	3373.55 *6*	(9/2+)	4142.69 *8*	(9/2+,11/2+)
2604.95 *6*		3382.83 *5*	(7/2+,9/2+)	4176.9 *4*	
2622.76 *5*	(11/2+,13/2+)	3406.8 *4*		4193.82 *16*	(7/2+,9/2+,11/2+)
2679.57 *5*	(9/2+,11/2+)	3429.47 *21*		4219.16 *8*	(7/2+,9/2+)
2689.95 *14*		3434.21 *21*		4256.2 *3*	
2763.82 *12*		3473.15 *6*	(7/2+,9/2+,11/2+)	4264.42 *10*	(11/2+)
2783.96 *11*		3496.07 *25*	(7/2+,9/2+)	4265.96 *7*	(9/2+)
2799.33 *7*	(5/2+,7/2+,9/2+)	3503.03 *8*	(7/2+,9/2+,11/2+)	4285.72 *5*	(7/2+,9/2+)
2808.03 *10*		3548.72 *11*		4318.62 *5*	(7/2+,9/2+)
2831.05 *6*	(9/2+,11/2+,13/2+)	3558.44 *8*	(9/2+,11/2+)	4337.0 *4*	
2842.85 *6*		3577.14 *6*	(9/2+,11/2+)	4339.2 *3*	
2881.84 *6*	(9/2+,11/2+)	3591.05 *8*	(9/2+,11/2+)	4354.54 *25*	(7/2+,9/2+,11/2+)
2884.52 *21*		3622.11 *11*		4374.77 *13*	(7/2+,9/2+)
2890.03 *5*	(11/2+)	3626.32 *11*	(7/2+,9/2+,11/2+)	4385.83 *21*	
2893.24 *12*		3686.60 *18*		4413.52 *12*	(7/2+,9/2+,11/2+)
2923.74 *21*		3704.82 *21*		4420.3 *4*	
2961.54 *17*	(9/2+,11/2+,13/2+)	3712.81 *22*		4430.52 *18*	(7/2+,9/2+,11/2+)
3001.59 *7*	(13/2+)	3740.02 *4*	(11/2+)	4435.85 *25*	(7/2+,9/2+,11/2+)
3010.05 *8*	(7/2+,9/2+,11/2+)	3759.42 *21*		4451.5 *3*	(7/2+,9/2+,11/2+)
3018.4 *3*		3763.28 *9*	(7/2+,9/2+)	4465.00 *5*	(9/2+)
3023.5 *5*		3775.6 *8*		4532.4 *3*	
3029.21 *5*	(9/2+)	3781.9 *3*		4548.9 *6*	
3066.33 *21*		3790.48 *5*	(7/2+,9/2+,11/2+)	4618.4 *3*	
3067.9 *4*		3814.7 *3*		4645.8 *4*	
3086.51 *21*		3827.82 *6*	(7/2+,9/2+,11/2+)	4729.5 *7*	
3097.30 *11*		3842.03 *21*		4915.3 *4*	(7/2+,9/2+,11/2+)
3101.58 *6*	(7/2+,9/2+)	3856.50 *10*		4993.0 *3*	(7/2+,9/2+,11/2+)
3105.56 *22*	(13/2+,15/2+)	3858.68 *11*		5004.86 *22*	(7/2+,9/2+,11/2+)
3118.3 *12*		3865.45 *11*	(9/2+,11/2+)	5042.5 *4*	(7/2+,9/2+,11/2+)
3147.76 *21*		3925.59 *12*	(9/2+)	5086.3 *4*	(7/2+,9/2+,11/2+)
3157.00 *7*	(9/2+,11/2+)	3954.0 *3*	(5/2+,7/2+,9/2+)	5151.0 *5*	(7/2+,9/2+,11/2+)
3192.46 *8*	(9/2+,11/2+)	3967.6 *4*		5238.2 *3*	
3209.03 *6*	(13/2+)	3983.29 *5*	(9/2+)	5256.2 *8*	(7/2+,9/2+,11/2+)
3226.61 *11*		4013.64 *16*	(7/2+,9/2+)	5280.3 *7*	(7/2+,9/2+,11/2+)
3280.27 *15*	(5/2+,7/2+,9/2+)	4019.14 *5*	(9/2+,11/2+)	5326.4 *7*	(7/2+,9/2+,11/2+)

† From a least squares fit to Eγ's. Normalized χ^2=4.0 greater than critical χ^2=1.2.

‡ Unless otherwise noted, spins and parities were assigned to ^{97}Pd levels according to the β intensities from ^{97}Ag decay and the relative γ intensities. These values are the same As the ones In the Adopted Levels dataset.

From shell-model and analogy with other N=51 nuclei; also from 775γ to g.s.

@ From 1990Pi01.

& From 1982Fe01.

a The level energy was misprinted in 1997Sc30 as 3323.4 keV.

^{97}Ag ε decay (25.5 s) 1999Hu10,1997Sc30,1982Ku15 (continued)

ε,β+ radiations

E(decay)	E(level)	Iβ+ #	Iε#	Log *ft*	I(ε+β+)†#	Comments
(1.65×10^3 *11*)	5326.4	0.0006 *5*	0.014 *5*	5.98 *16*	0.015 *5*	av Eβ=284 *48*; εK=0.831 *25*; εL=0.105 *4*; εM+=0.0255 *8*
(1.70×10^3 *11*)	5280.3	0.0009 *6*	0.017 *6*	5.93 *16*	0.018 *6*	av Eβ=304 *48*; εK=0.82 *3*; εL=0.104 *4*; εM+=0.0252 *9*
(1.72×10^3 *11*)	5256.2	0.0019 *13*	0.033 *7*	5.65 *12*	0.035 *7*	av Eβ=314 *48*; εK=0.82 *3*; εL=0.103 *4*; εM+=0.0250 *10*
(1.74×10^3 *11*)	5238.2	0.0005 *3*	0.0085 *19*	6.25 *12*	0.0090 *20*	av Eβ=322 *48*; εK=0.81 *3*; εL=0.102 *4*; εM+=0.0249 *10*
(1.83×10^3 *11*)	5151.0	0.009 *6*	0.09 *4*	5.26 *19*	0.10 *4*	av Eβ=360 *48*; εK=0.79 *4*; εL=0.099 *5*; εM+=0.0241 *12*
(1.89×10^3 *11*)	5086.3	0.0026 *13*	0.020 *6*	5.94 *16*	0.023 *7*	av Eβ=388 *49*; εK=0.77 *4*; εL=0.097 *6*; εM+=0.0234 *13*
(1.94×10^3 *11*)	5042.5	0.0057 *24*	0.038 *7*	5.69 *11*	0.044 *8*	av Eβ=407 *49*; εK=0.75 *5*; εL=0.095 *6*; εM+=0.0230 *14*
(1.98×10^3 *11*)	5004.86	0.023 *9*	0.14 *3*	5.16 *11*	0.16 *3*	av Eβ=424 *49*; εK=0.74 *5*; εL=0.093 *6*; εM+=0.0225 *14*
(1.99×10^3 *11*)	4993.0	0.0061 *25*	0.034 *8*	5.77 *13*	0.040 *9*	av Eβ=429 *49*; εK=0.73 *5*; εL=0.092 *6*; εM+=0.0224 *15*
(2.06×10^3 *11*)	4915.3	0.010 *3*	0.042 *7*	5.71 *11*	0.052 *8*	av Eβ=463 *49*; εK=0.70 *5*; εL=0.088 *7*; εM+=0.0214 *16*
(2.25×10^3 *11*)	4729.5	0.0060 *21*	0.015 *5*	6.23 *15*	0.021 *6*	av Eβ=546 *49*; εK=0.62 *6*; εL=0.077 *7*; εM+=0.0188 *17*
(2.33×10^3 *11*)	4645.8	0.011 *3*	0.023 *5*	6.08 *13*	0.034 *7*	av Eβ=583 *50*; εK=0.58 *6*; εL=0.072 *7*; εM+=0.0175 *16*
(2.36×10^3 *11*)	4618.4	0.014 *4*	0.027 *7*	6.02 *14*	0.041 *10*	av Eβ=595 *50*; εK=0.56 *6*; εL=0.071 *7*; εM+=0.0171 *17*
(2.43×10^3 *11*)	4548.9	0.010 *4*	0.016 *6*	6.27 *18*	0.026 *9*	av Eβ=626 *50*; εK=0.53 *6*; εL=0.067 *7*; εM+=0.0161 *16*
(2.45×10^3 *11*)	4532.4	0.015 *3*	0.022 *4*	6.13 *11*	0.037 *6*	av Eβ=634 *50*; εK=0.52 *6*; εL=0.066 *7*; εM+=0.0159 *16*
(2.52×10^3 *11*)	4465.00	0.99 *14*	1.30 *15*	4.39 *9*	2.29 *8*	av Eβ=664 *50*; εK=0.49 *6*; εL=0.062 *7*; εM+=0.0149 *16*
(2.53×10^3 *11*)	4451.5	0.026 *6*	0.034 *7*	5.98 *11*	0.060 *10*	av Eβ=670 *50*; εK=0.49 *6*; εL=0.061 *7*; εM+=0.0148 *16*
(2.54×10^3 *11*)	4435.85	0.049 *8*	0.061 *9*	5.73 *10*	0.11 *1*	av Eβ=677 *50*; εK=0.48 *5*; εL=0.060 *7*; εM+=0.0145 *16*
(2.55×10^3 *11*)	4430.52	0.062 *13*	0.075 *15*	5.64 *11*	0.137 *22*	av Eβ=679 *50*; εK=0.48 *5*; εL=0.060 *7*; εM+=0.0145 *16*
(2.56×10^3 *11*)	4420.3	0.016 *3*	0.019 *3*	6.24 *11*	0.035 *5*	av Eβ=684 *50*; εK=0.47 *5*; εL=0.059 *7*; εM+=0.0143 *16*
(2.57×10^3 *11*)	4413.52	0.31 *5*	0.36 *6*	4.96 *10*	0.67 *8*	av Eβ=687 *50*; εK=0.47 *5*; εL=0.059 *7*; εM+=0.0142 *16*
(2.59×10^3 *11*)	4385.83	0.018 *5*	0.020 *5*	6.23 *14*	0.038 *9*	av Eβ=700 *50*; εK=0.46 *5*; εL=0.057 *7*; εM+=0.0139 *16*
(2.61×10^3 *11*)	4374.77	0.100 *17*	0.109 *18*	5.50 *10*	0.209 *24*	av Eβ=705 *50*; εK=0.45 *5*; εL=0.057 *7*; εM+=0.0137 *15*
(2.63×10^3 *11*)	4354.54	0.031 *7*	0.033 *7*	6.03 *12*	0.064 *12*	av Eβ=714 *50*; εK=0.44 *5*; εL=0.055 *7*; εM+=0.0134 *15*
(2.64×10^3 *11*)	4339.2	0.009 *3*	0.009 *3*	6.59 *17*	0.018 *6*	av Eβ=721 *50*; εK=0.44 *5*; εL=0.055 *6*; εM+=0.0132 *15*
(2.64×10^3 *11*)	4337.0	0.025 *6*	0.025 *6*	6.15 *12*	0.050 *10*	av Eβ=722 *50*; εK=0.44 *5*; εL=0.055 *6*; εM+=0.0132 *15*
(2.66×10^3 *11*)	4318.62	0.94 *12*	0.92 *12*	4.59 *9*	1.86 *8*	av Eβ=730 *50*; εK=0.43 *5*; εL=0.054 *6*; εM+=0.0130 *15*
(2.69×10^3 *11*)	4285.72	1.68 *20*	1.55 *20*	4.37 *9*	3.23 *12*	av Eβ=745 *50*; εK=0.41 *5*; εL=0.052 *6*;

Continued on next page (footnotes at end of table)

^{97}Ag ε decay (25.5 s) 1999Hu10,1997Sc30,1982Ku15 (continued)

ε,β+ radiations (continued)

E(decay)	E(level)	Iβ+ #	Iε#	Log *ft*	I(ε+β+)†#	Comments
						εM+=0.0126 *15*
(2.71×10^3 *11*)	4265.96	0.83 *10*	0.74 *10*	4.70 *9*	1.57 *8*	av Eβ=754 *50*; εK=0.41 *5*; εL=0.051 *6*; εM+=0.0123 *14*
(2.72×10^3 *11*)	4264.42	0.21 *3*	0.18 *3*	5.31 *9*	0.39 *3*	av Eβ=754 *50*; εK=0.41 *5*; εL=0.051 *6*; εM+=0.0123 *14*
(2.72×10^3 *11*)	4256.2	0.025 *5*	0.021 *5*	6.24 *12*	0.046 *8*	av Eβ=758 *50*; εK=0.40 *5*; εL=0.050 *6*; εM+=0.0122 *14*
(2.76×10^3 *11*)	4219.16	0.54 *11*	0.44 *9*	4.94 *12*	0.98 *17*	av Eβ=775 *50*; εK=0.39 *5*; εL=0.048 *6*; εM+=0.0118 *14*
(2.79×10^3 *11*)	4193.82	0.118 *17*	0.092 *15*	5.63 *10*	0.210 *23*	av Eβ=786 *50*; εK=0.38 *5*; εL=0.047 *6*; εM+=0.0115 *14*
(2.80×10^3 *11*)	4176.9	0.011 *6*	0.009 *4*	6.66 *24*	0.020 *10*	av Eβ=794 *50*; εK=0.37 *5*; εL=0.046 *6*; εM+=0.0113 *14*
(2.84×10^3 *11*)	4142.69	0.29 *3*	0.21 *3*	5.29 *9*	0.50 *3*	av Eβ=810 *51*; εK=0.36 *5*; εL=0.045 *6*; εM+=0.0109 *13*
(2.85×10^3 *11*)	4125.50	0.74 *8*	0.51 *7*	4.91 *9*	1.25 *8*	av Eβ=818 *51*; εK=0.35 *5*; εL=0.044 *6*; εM+=0.0107 *13*
(2.86×10^3 *11*)	4123.28	0.25 *3*	0.17 *3*	5.38 *9*	0.42 *3*	av Eβ=819 *51*; εK=0.35 *5*; εL=0.044 *6*; εM+=0.0107 *13*
(2.87×10^3 *11*)	4105.37	0.97 *10*	0.65 *9*	4.81 *9*	1.62 *8*	av Eβ=827 *51*; εK=0.35 *4*; εL=0.043 *6*; εM+=0.0105 *13*
(2.91×10^3 *11*)	4068.54	0.042 *8*	0.026 *5*	6.21 *11*	0.068 *11*	av Eβ=844 *51*; εK=0.33 *4*; εL=0.042 *5*; εM+=0.0101 *12*
(2.93×10^3 *11*)	4053.06	0.17 *2*	0.10 *2*	5.63 *10*	0.27 *3*	av Eβ=851 *51*; εK=0.33 *4*; εL=0.041 *5*; εM+=0.0099 *12*
(2.94×10^3 *11*)	4040.22	1.00 *9*	0.59 *8*	4.87 *9*	1.59 *8*	av Eβ=856 *51*; εK=0.32 *4*; εL=0.040 *5*; εM+=0.0098 *12*
(2.96×10^3 *11*)	4019.14	1.25 *10*	0.72 *10*	4.79 *9*	1.97 *7*	av Eβ=866 *51*; εK=0.32 *4*; εL=0.040 *5*; εM+=0.0096 *12*
(2.97×10^3 *11*)	4013.64	0.20 *2*	0.12 *2*	5.58 *9*	0.32 *2*	av Eβ=869 *51*; εK=0.32 *4*; εL=0.039 *5*; εM+=0.0095 *12*
(3.00×10^3 *11*)	3983.29	3.3 *3*	1.82 *24*	4.40 *9*	5.17 *22*	av Eβ=882 *51*; εK=0.31 *4*; εL=0.038 *5*; εM+=0.0092 *11*
(3.01×10^3 *11*)	3967.6	0.017 *5*	0.009 *3*	6.71 *15*	0.026 *7*	av Eβ=890 *51*; εK=0.30 *4*; εL=0.038 *5*; εM+=0.0091 *11*
(3.03×10^3 *11*)	3954.0	0.026 *7*	0.014 *4*	6.53 *14*	0.040 *10*	av Eβ=896 *51*; εK=0.30 *4*; εL=0.037 *5*; εM+=0.0090 *11*
(3.05×10^3 *11*)	3925.59	0.41 *5*	0.20 *3*	5.37 *10*	0.61 *6*	av Eβ=909 *51*; εK=0.29 *4*; εL=0.036 *5*; εM+=0.0087 *11*
(3.11×10^3 *11*)	3865.45	1.17 *10*	0.53 *8*	4.97 *9*	1.70 *11*	av Eβ=936 *51*; εK=0.27 *4*; εL=0.034 *4*; εM+=0.0082 *10*
(3.12×10^3 *11*)	3858.68	0.076 *8*	0.034 *5*	6.16 *9*	0.110 *10*	av Eβ=940 *51*; εK=0.27 *4*; εL=0.034 *4*; εM+=0.0081 *10*
(3.12×10^3 *11*)	3856.50	0.076 *10*	0.034 *6*	6.16 *10*	0.110 *13*	av Eβ=941 *51*; εK=0.27 *4*; εL=0.033 *4*; εM+=0.0081 *10*
(3.14×10^3 *11*)	3842.03	0.028 *5*	0.013 *3*	6.60 *11*	0.041 *7*	av Eβ=947 *51*; εK=0.26 *4*; εL=0.033 *4*; εM+=0.0080 *10*
(3.15×10^3 *11*)	3827.82	0.52 *8*	0.23 *4*	5.35 *10*	0.75 *10*	av Eβ=954 *51*; εK=0.26 *3*; εL=0.033 *4*; εM+=0.0079 *10*
(3.17×10^3 *11*)	3814.7	0.030 *8*	0.013 *4*	6.60 *14*	0.043 *11*	av Eβ=960 *51*; εK=0.26 *3*; εL=0.032 *4*; εM+=0.0078 *10*
(3.19×10^3 *11*)	3790.48	1.83 *12*	0.75 *10*	4.84 *9*	2.58 *10*	av Eβ=971 *51*; εK=0.25 *3*; εL=0.031 *4*; εM+=0.0076 *9*
(3.20×10^3 *11*)	3781.9	0.025 *6*	0.010 *3*	6.71 *13*	0.035 *8*	av Eβ=975 *51*; εK=0.25 *3*; εL=0.031 *4*; εM+=0.0075 *9*

Continued on next page (footnotes at end of table)

^{97}Ag ε decay (25.5 s) 1999Hu10,1997Sc30,1982Ku15 (continued)

ε,β+ radiations (continued)

E(decay)	E(level)	Iβ+ #	Iε#	Log *ft*	I(ε+β+)†#	Comments
(3.20×10^3 *11*)	3775.6	0.021 *5*	0.0086 *23*	6.78 *13*	0.030 *7*	av Eβ=978 *51*; εK=0.25 *3*; εL=0.031 *4*; εM+=0.0075 *9*
(3.22×10^3 *11*)	3763.28	0.29 *3*	0.11 *2*	5.67 *9*	0.40 *4*	av Eβ=983 *51*; εK=0.24 *3*; εL=0.030 *4*; εM+=0.0074 *9*
(3.22×10^3 *11*)	3759.42	0.050 *8*	0.020 *4*	6.43 *10*	0.070 *10*	av Eβ=985 *51*; εK=0.24 *3*; εL=0.030 *4*; εM+=0.0074 *9*
(3.24×10^3 *11*)	3740.02	10.8 *6*	4.1 *5*	4.11 *8*	14.9 *4*	av Eβ=994 *51*; εK=0.24 *3*; εL=0.030 *4*; εM+=0.0072 *9*
(3.27×10^3 *11*)	3712.81	0.083 *16*	0.031 *7*	6.25 *12*	0.114 *21*	av Eβ=1007 *51*; εK=0.23 *3*; εL=0.029 *4*; εM+=0.0070 *9*
(3.28×10^3 *11*)	3704.82	0.034 *5*	0.013 *2*	6.64 *11*	0.047 *7*	av Eβ=1010 *51*; εK=0.23 *3*; εL=0.029 *4*; εM+=0.0070 *9*
(3.29×10^3 *11*)	3686.60	0.084 *10*	0.030 *5*	6.27 *10*	0.114 *13*	av Eβ=1019 *51*; εK=0.23 *3*; εL=0.028 *4*; εM+=0.0068 *8*
(3.35×10^3 *11*)	3626.32	0.39 *4*	0.13 *2*	5.65 *9*	0.52 *5*	av Eβ=1047 *51*; εK=0.213 *25*; εL=0.027 *3*; εM+=0.0064 *8*
(3.36×10^3 *11*)	3622.11	0.020 *4*	0.0066 *15*	6.94 *12*	0.027 *5*	av Eβ=1049 *51*; εK=0.212 *25*; εL=0.026 *3*; εM+=0.0064 *8*
(3.39×10^3 *11*)	3591.05	0.35 *3*	0.11 *2*	5.73 *9*	0.46 *4*	av Eβ=1063 *51*; εK=0.206 *24*; εL=0.026 *3*; εM+=0.0062 *8*
(3.40×10^3 *11*)	3577.14	0.72 *5*	0.22 *3*	5.43 *9*	0.94 *6*	av Eβ=1069 *51*; εK=0.203 *24*; εL=0.025 *3*; εM+=0.0061 *7*
(3.42×10^3 *11*)	3558.44	0.30 *3*	0.090 *13*	5.82 *9*	0.39 *3*	av Eβ=1078 *51*; εK=0.199 *23*; εL=0.025 *3*; εM+=0.0060 *7*
(3.43×10^3 *11*)	3548.72	0.039 *7*	0.011 *2*	6.72 *11*	0.050 *9*	av Eβ=1083 *51*; εK=0.197 *23*; εL=0.025 *3*; εM+=0.0060 *7*
(3.48×10^3 *11*)	3503.03	0.70 *5*	0.19 *3*	5.50 *8*	0.89 *5*	av Eβ=1104 *51*; εK=0.189 *22*; εL=0.024 *3*; εM+=0.0057 *7*
(3.48×10^3 *11*)	3496.07	0.227 *21*	0.063 *9*	5.99 *9*	0.290 *25*	av Eβ=1107 *51*; εK=0.187 *22*; εL=0.023 *3*; εM+=0.0057 *7*
(3.51×10^3 *11*)	3473.15	1.35 *10*	0.36 *5*	5.24 *8*	1.71 *11*	av Eβ=1118 *51*; εK=0.183 *21*; εL=0.023 *3*; εM+=0.0055 *7*
(3.55×10^3 *11*)	3434.21	0.096 *8*	0.024 *4*	6.42 *9*	0.120 *10*	av Eβ=1136 *52*; εK=0.177 *20*; εL=0.0220 *25*; εM+=0.0053 *6*
(3.55×10^3 *11*)	3429.47	0.19 *2*	0.049 *8*	6.12 *10*	0.24 *3*	av Eβ=1138 *52*; εK=0.176 *20*; εL=0.0219 *25*; εM+=0.0053 *6*
(3.57×10^3 *11*)	3406.8	0.029 *4*	0.0072 *13*	6.96 *10*	0.036 *5*	av Eβ=1148 *52*; εK=0.172 *20*; εL=0.0214 *24*; εM+=0.0052 *6*
(3.60×10^3 *11*)	3382.83	2.18 *10*	0.53 *6*	5.10 *8*	2.71 *10*	av Eβ=1159 *52*; εK=0.168 *19*; εL=0.0209 *24*; εM+=0.0051 *6*
(3.61×10^3 *11*)	3373.55	0.62 *4*	0.15 *2*	5.65 *8*	0.77 *5*	av Eβ=1164 *52*; εK=0.167 *19*; εL=0.0208 *24*; εM+=0.0050 *6*
(3.62×10^3 *11*)	3362.37	0.007 *11*	0.002 *2*	7.6 *7*	0.009 *13*	av Eβ=1169 *52*; εK=0.165 *19*; εL=0.0205 *23*; εM+=0.0050 *6*
(3.63×10^3 *11*)	3353.78	1.99 *14*	0.46 *6*	5.16 *8*	2.45 *16*	av Eβ=1173 *52*; εK=0.164 *19*; εL=0.0204 *23*; εM+=0.0049 *6*
(3.63×10^3 *11*)	3351.14	2.27 *13*	0.53 *7*	5.10 *8*	2.80 *14*	av Eβ=1174 *52*; εK=0.163 *18*; εL=0.0203 *23*; εM+=0.0049 *6*
(3.65×10^3 *11*)	3329.83	0.15 *5*	0.033 *12*	6.31 *17*	0.18 *6*	av Eβ=1184 *52*; εK=0.160 *18*; εL=0.0199 *22*; εM+=0.0048 *6*
(3.68×10^3 *11*)	3303.7	0.066 *16*	0.014 *4*	6.68 *13*	0.080 *20*	av Eβ=1196 *52*; εK=0.156 *18*; εL=0.0194 *22*; εM+=0.0047 *6*
(3.68×10^3 *11*)	3295.73	1.3 *2*	0.29 *6*	5.38 *11*	1.6 *3*	av Eβ=1200 *52*; εK=0.155 *17*; εL=0.0193 *22*; εM+=0.0047 *6*
(3.70×10^3 *11*)	3280.27	0.255 *20*	0.055 *7*	6.10 *8*	0.310 *23*	av Eβ=1207 *52*; εK=0.153 *17*; εL=0.0190 *21*;

Continued on next page (footnotes at end of table)

^{97}Ag ε decay (25.5 s) 1999Hu10,1997Sc30,1982Ku15 (continued)

ε,β+ radiations (continued)

E(decay)	E(level)	Iβ+ #	Iε#	Log *ft*	I(ε+β+)†#	Comments
						εM+=0.0046 *5*
(3.75×10^3 *11*)	3226.61	0.075 *17*	0.015 *4*	6.68 *12*	0.090 *20*	av Eβ=1232 *52*; εK=0.145 *16*; εL=0.0181 *20*; εM+=0.0044 *5*
(3.79×10^3 *11*)	3192.46	0.43 *5*	0.083 *13*	5.94 *9*	0.51 *6*	av Eβ=1248 *52*; εK=0.141 *16*; εL=0.0175 *19*; εM+=0.0042 *5*
(3.82×10^3 *11*)	3157.00	0.57 *4*	0.11 *1*	5.84 *8*	0.68 *5*	av Eβ=1265 *52*; εK=0.136 *15*; εL=0.0170 *19*; εM+=0.0041 *5*
(3.83×10^3 *11*)	3147.76	0.037 *5*	0.0069 *12*	7.04 *10*	0.044 *6*	av Eβ=1269 *52*; εK=0.135 *15*; εL=0.0168 *18*; εM+=0.0041 *5*
(3.86×10^3 *11*)	3118.3	0.025 *8*	0.0046 *16*	7.22 *16*	0.030 *10*	av Eβ=1283 *52*; εK=0.132 *14*; εL=0.0164 *18*; εM+=0.0040 *5*
(3.87×10^3 *11*)	3105.56	0.054 *8*	0.0095 *17*	6.91 *10*	0.063 *9*	av Eβ=1289 *52*; εK=0.130 *14*; εL=0.0162 *17*; εM+=0.0039 *5*
(3.88×10^3 *11*)	3101.58	0.77 *6*	0.13 *2*	5.75 *8*	0.90 *7*	av Eβ=1291 *52*; εK=0.130 *14*; εL=0.0161 *17*; εM+=0.0039 *5*
(3.88×10^3 *11*)	3097.30	0.27 *4*	0.048 *9*	6.21 *10*	0.32 *5*	av Eβ=1293 *52*; εK=0.129 *14*; εL=0.0161 *17*; εM+=0.0039 *5*
(3.89×10^3 *11*)	3086.51	0.009 *8*	0.0016 *13*	7.7 *4*	0.011 *9*	av Eβ=1298 *52*; εK=0.128 *14*; εL=0.0159 *17*; εM+=0.0039 *4*
(3.91×10^3 *11*)	3067.9	0.026 *9*	0.0044 *15*	7.25 *16*	0.030 *10*	av Eβ=1306 *52*; εK=0.126 *14*; εL=0.0156 *17*; εM+=0.0038 *4*
(3.91×10^3 *11*)	3066.33	0.032 *6*	0.0055 *12*	7.15 *11*	0.038 *7*	av Eβ=1307 *52*; εK=0.126 *14*; εL=0.0156 *17*; εM+=0.0038 *4*
(3.95×10^3 *11*)	3029.21	0.11 *10*	0.018 *17*	6.6 *4*	0.13 *12*	av Eβ=1325 *52*; εK=0.122 *13*; εL=0.0151 *16*; εM+=0.0037 *4*
(3.96×10^3 *11*)	3023.5	0.043 *9*	0.0070 *16*	7.06 *11*	0.050 *10*	av Eβ=1327 *52*; εK=0.121 *13*; εL=0.0150 *16*; εM+=0.0036 *4*
(3.96×10^3 *11*)	3018.4	0.022 *6*	0.0036 *10*	7.34 *14*	0.026 *7*	av Eβ=1330 *52*; εK=0.120 *13*; εL=0.0150 *16*; εM+=0.0036 *4*
(3.97×10^3 *11*)	3010.05	0.21 *4*	0.033 *8*	6.38 *12*	0.24 *5*	av Eβ=1333 *52*; εK=0.119 *13*; εL=0.0149 *16*; εM+=0.0036 *4*
(4.02×10^3 *11*)	2961.54	0.123 *10*	0.0188 *24*	6.64 *8*	0.142 *11*	av Eβ=1356 *52*; εK=0.114 *12*; εL=0.0142 *15*; εM+=0.0034 *4*
(4.06×10^3 *11*)	2923.74	0.070 *14*	0.010 *2*	6.91 *11*	0.080 *16*	av Eβ=1374 *52*; εK=0.111 *12*; εL=0.0138 *14*; εM+=0.0033 *4*
(4.09×10^3 *11*)	2893.24	0.002 *14*	0.0002 *20*	9 *4*	0.002 *16*	av Eβ=1388 *52*; εK=0.108 *11*; εL=0.0134 *14*; εM+=0.0032 *4*
(4.09×10^3 *11*)	2890.03	1.66 *13*	0.23 *3*	5.56 *8*	1.89 *15*	av Eβ=1390 *52*; εK=0.108 *11*; εL=0.0134 *14*; εM+=0.0032 *4*
(4.10×10^3 *11*)	2884.52	0.055 *8*	0.0078 *14*	7.04 *9*	0.063 *9*	av Eβ=1392 *52*; εK=0.107 *11*; εL=0.0133 *14*; εM+=0.0032 *4*
(4.10×10^3 *11*)	2881.84	0.26 *7*	0.037 *11*	6.36 *14*	0.30 *8*	av Eβ=1394 *52*; εK=0.107 *11*; εL=0.0133 *14*; εM+=0.0032 *4*
(4.14×10^3 *11*)	2842.85	0.50 *5*	0.068 *10*	6.11 *8*	0.57 *6*	av Eβ=1412 *52*; εK=0.103 *11*; εL=0.0129 *13*; εM+=0.0031 *3*
(4.15×10^3 *11*)	2831.05	0.19 *6*	0.025 *9*	6.55 *16*	0.21 *7*	av Eβ=1418 *52*; εK=0.102 *11*; εL=0.0127 *13*; εM+=0.0031 *3*
(4.17×10^3 *11*)	2808.03	0.131 *19*	0.017 *3*	6.71 *9*	0.148 *21*	av Eβ=1428 *52*; εK=0.100 *10*; εL=0.0125 *13*; εM+=0.0030 *3*
(4.20×10^3 *11*)	2783.96	0.080 *18*	0.010 *2*	6.94 *12*	0.090 *20*	av Eβ=1440 *52*; εK=0.098 *10*; εL=0.0122 *12*; εM+=0.0030 *3*
(4.22×10^3 *11*)	2763.82	0.071 *9*	0.0089 *14*	7.00 *9*	0.080 *10*	av Eβ=1449 *52*; εK=0.097 *10*; εL=0.0120 *12*; εM+=0.0029 *3*
(4.29×10^3 *11*)	2689.95	0.255 *21*	0.030 *4*	6.49 *8*	0.285 *23*	av Eβ=1484 *52*; εK=0.091 *9*; εL=0.0113 *11*; εM+=0.0027 *3*

Continued on next page (footnotes at end of table)

^{97}Ag ε decay (25.5 s) 1999Hu10,1997Sc30,1982Ku15 (continued)

ε,β+ radiations (continued)

E(decay)	E(level)	Iβ+ #	Iε#	Log *ft*	I(ε+β+)†#	Comments
(4.30×10^3 *11*)	2679.57	0.39 *10*	0.045 *12*	6.32 *13*	0.43 *11*	av Eβ=1489 *52*; εK=0.090 *9*; εL=0.0112 *11*; εM+=0.0027 *3*
(4.36×10^3 *11*)	2622.76	0.50 *9*	0.056 *11*	6.24 *10*	0.56 *10*	av Eβ=1516 *52*; εK=0.086 *9*; εL=0.0107 *11*; εM+=0.00259 *25*
(4.38×10^3 *11*)	2604.95	0.13 *7*	0.014 *8*	6.9 *3*	0.14 *8*	av Eβ=1524 *52*; εK=0.085 *8*; εL=0.0106 *10*; εM+=0.00256 *24*
(4.40×10^3 *11*)	2583.31	0.12 *5*	0.013 *5*	6.89 *18*	0.13 *5*	av Eβ=1534 *52*; εK=0.083 *8*; εL=0.0104 *10*; εM+=0.00251 *24*
(4.46×10^3 *11*)	2515.2	0.045 *18*	0.0046 *19*	7.35 *19*	0.050 *20*	av Eβ=1566 *52*; εK=0.079 *8*; εL=0.0098 *9*; εM+=0.00238 *22*
(4.47×10^3 *11*)	2506.00	0.42 *22*	0.042 *22*	6.39 *24*	0.46 *24*	av Eβ=1571 *52*; εK=0.078 *8*; εL=0.0098 *9*; εM+=0.00236 *22*
(4.48×10^3 *11*)	2500.38	0.29 *3*	0.029 *4*	6.55 *8*	0.32 *3*	av Eβ=1573 *52*; εK=0.078 *8*; εL=0.0097 *9*; εM+=0.00235 *22*
(4.48×10^3 *11*)	2496.01	0.43 *7*	0.042 *8*	6.38 *10*	0.47 *8*	av Eβ=1576 *52*; εK=0.078 *8*; εL=0.0097 *9*; εM+=0.00234 *22*
(4.50×10^3 *11*)	2481.91	0.26 *3*	0.026 *4*	6.60 *8*	0.29 *3*	av Eβ=1582 *52*; εK=0.077 *7*; εL=0.0096 *9*; εM+=0.00232 *22*
(4.53×10^3 *11*)	2446.90	0.048 *8*	0.0046 *9*	7.36 *10*	0.053 *9*	av Eβ=1599 *52*; εK=0.075 *7*; εL=0.0093 *9*; εM+=0.00225 *21*
(4.56×10^3 *11*)	2417.10	0.082 *9*	0.0076 *11*	7.14 *8*	0.090 *10*	av Eβ=1613 *53*; εK=0.073 *7*; εL=0.0091 *9*; εM+=0.00220 *20*
(4.58×10^3 *11*)	2395.71	0.51 *12*	0.047 *12*	6.36 *12*	0.56 *13*	av Eβ=1623 *53*; εK=0.072 *7*; εL=0.0089 *8*; εM+=0.00217 *20*
(4.60×10^3 *11*)	2376.64	0.48 *9*	0.043 *9*	6.40 *11*	0.52 *10*	av Eβ=1632 *53*; εK=0.071 *7*; εL=0.0088 *8*; εM+=0.00214 *19*
(4.60×10^3 *11*)	2375.77	0.03 *13*	0.002 *11*	7.6 *21*	0.03‡ *14*	av Eβ=1632 *53*; εK=0.071 *7*; εL=0.0088 *8*; εM+=0.00213 *19*
(4.61×10^3 *11*)	2371.67	0.06 *7*	0.006 *7*	7.3 *5*	0.07 *8*	av Eβ=1634 *53*; εK=0.071 *7*; εL=0.0088 *8*; εM+=0.00213 *19*
(4.70×10^3 *11*)	2283.43	0.14 *3*	0.011 *3*	6.99 *11*	0.15 *3*	av Eβ=1676 *53*; εK=0.066 *6*; εL=0.0082 *8*; εM+=0.00199 *18*
(4.75×10^3 *11*)	2231.57	0.72 *14*	0.057 *12*	6.30 *10*	0.78 *15*	av Eβ=1701 *53*; εK=0.064 *6*; εL=0.0079 *7*; εM+=0.00191 *17*
(4.80×10^3 *11*)	2176.25	3.2 *7*	0.24 *5*	5.69 *11*	3.4 *7*	av Eβ=1727 *53*; εK=0.061 *6*; εL=0.0076 *7*; εM+=0.00184 *16*
(4.81×10^3 *11*)	2174.78	0.15 *6*	0.011 *4*	7.02 *18*	0.16 *6*	av Eβ=1728 *53*; εK=0.061 *6*; εL=0.0076 *7*; εM+=0.00184 *16*
(4.84×10^3 *11*)	2141.14	0.6 *4*	0.04 *3*	6.5 *3*	0.6 *4*	av Eβ=1744 *53*; εK=0.060 *5*; εL=0.0074 *7*; εM+=0.00179 *16*
(4.84×10^3 *11*)	2137.4	0.027 *5*	0.0020 *4*	7.78 *10*	0.029 *5*	av Eβ=1746 *53*; εK=0.059 *5*; εL=0.0074 *7*; εM+=0.00179 *15*
(4.85×10^3 *11*)	2134.66	2.0 *3*	0.14 *2*	5.92 *9*	2.1 *3*	av Eβ=1747 *53*; εK=0.059 *5*; εL=0.0074 *7*; εM+=0.00178 *15*
(4.85×10^3 *11*)	2131.67	0.156 *12*	0.0114 *13*	7.02 *7*	0.167 *13*	av Eβ=1748 *53*; εK=0.059 *5*; εL=0.0073 *7*; εM+=0.00178 *15*
(4.86×10^3 *11*)	2116.98	0.34 *11*	0.025 *8*	6.68 *16*	0.37 *12*	av Eβ=1755 *53*; εK=0.059 *5*; εL=0.0073 *6*; εM+=0.00176 *15*
(4.98×10^3 *11*)	1998.70	0.23 *14*	0.016 *9*	6.9 *3*	0.25 *15*	av Eβ=1811 *53*; εK=0.054 *5*; εL=0.0067 *6*; εM+=0.00162 *14*
(5.04×10^3 *11*)	1943.50	5.4 *8*	0.34 *6*	5.58 *8*	5.7 *8*	av Eβ=1838 *53*; εK=0.052 *5*; εL=0.0064 *6*; εM+=0.00156 *13*
(5.04×10^3 *11*)	1936.04	0.150 *9*	0.0095 *10*	7.13 *6*	0.160 *10*	av Eβ=1841 *53*; εK=0.052 *5*; εL=0.0064 *6*; εM+=0.00155 *13*
(5.20×10^3 *11*)	1782.32	0.19 *8*	0.011 *4*	7.11 *19*	0.20 *8*	av Eβ=1915 *53*; εK=0.046 *4*; εL=0.0058 *5*;

Continued on next page (footnotes at end of table)

^{97}Ag ε decay (25.5 s) 1999Hu10,1997Sc30,1982Ku15 (continued)

ε,β+ radiations (continued)

E(decay)	E(level)	Iβ+ #	Iε#	Log *ft*	I(ε+β+)†#	Comments
						εM+=0.00139 *11*
(5.27×10^3 *11*)	1712.03	0.028 *22*	0.0015 *12*	8.0 *4*	0.029 *23*	av Eβ=1948 *53*; εK=0.044 *4*; εL=0.0055 *5*; εM+=0.00133 *11*
(5.44×10^3 *11*)	1537.69	0.7 *4*	0.03 *2*	6.7 *3*	0.7 *4*	av Eβ=2032 *53*; εK=0.040 *3*; εL=0.0049 *4*; εM+=0.00119 *9*
(6.21×10^3 *11*)	774.98	0.13 *4*	0.0038 *12*	7.72 *14*	0.13 *4*	av Eβ=2398 *53*; εK=0.0252 *16*; εL=0.00312 *20*; εM+=0.00075 *5*
(6.29×10^3 *11*)	686.67	11 *3*	0.30 *9*	5.82 *13*	11 *3*	av Eβ=2441 *54*; εK=0.0240 *15*; εL=0.00297 *19*; εM+=0.00072 *5*

† From intensity balance in level scheme assuming no direct ε+β+ decay to ^{97}Pd g.s.
‡ GTOL upper limit (method 1): 0.24.
# Absolute intensity per 100 decays.

^{97}Ag ε decay (25.5 s) 1999Hu10,1997Sc30,1982Ku15 (continued)

$\gamma(^{97}Pd)$

Iγ normalization: ΣIγ(to g.s.)=100; assuming no direct $\varepsilon+\beta^+$ decay to ^{97}Pd g.s. ((9/2$^+$) to (5/2$^+$) transition).

E$_\gamma$ [†]	I$_\gamma$ [a]	E$_i$(level)	J$_i^\pi$	E$_f$	J$_f^\pi$	Mult. [‡]	α [b]	Comments
127.3 *2*	0.033 *6*	2371.67	(15/2$^+$)	2244.26	(17/2$^+$)			
144.2 *1*	0.044 *4*	2375.77	(9/2$^+$,11/2$^+$,13/2$^+$)	2231.57	(11/2$^+$,13/2$^+$)			
197.6 *1*	0.28 *3*	2141.14	(13/2$^+$)	1943.50	(11/2$^+$)			
216.0 *1*	0.56 *4*	2587.64	(13/2$^+$)	2371.67	(15/2$^+$)			
230.5 *1*	0.60 *4*	2371.67	(15/2$^+$)	2141.14	(13/2$^+$)			
234.6 *1*	0.10 *1*	2375.77	(9/2$^+$,11/2$^+$,13/2$^+$)	2141.14	(13/2$^+$)			
244.7 *2*	0.08 *2*	1782.32	(5/2$^+$)	1537.69	(7/2$^+$,9/2$^+$)			
247.1 *1*	0.062 *7*	2622.76	(11/2$^+$,13/2$^+$)	2375.77	(9/2$^+$,11/2$^+$,13/2$^+$)			
254.8 *1*	0.18 *2*	2395.71	(11/2$^+$)	2141.14	(13/2$^+$)			
256.2 *1*	0.22 *2*	2500.38	(15/2$^+$)	2244.26	(17/2$^+$)			
259.2 *2*	0.049 *9*	2604.95		2344.84	(7/2$^+$,9/2$^+$)			
259.9 *1*	0.082 *9*	2141.14	(13/2$^+$)	1881.60	(13/2$^+$)			
302.5 *3*	0.108 *8*	2890.03	(11/2$^+$)	2587.64	(13/2$^+$)			
305.5 *1*	0.14 *2*	2481.91	(13/2$^+$)	2176.25	(9/2$^+$)			
350.0 *1*	1.8 *1*	2231.57	(11/2$^+$,13/2$^+$)	1881.60	(13/2$^+$)			
356.7 *1*	0.028 *5*	2587.64	(13/2$^+$)	2231.57	(11/2$^+$,13/2$^+$)			
362.7 *1*	0.24 *2*	2244.26	(17/2$^+$)	1881.60	(13/2$^+$)	(E2)	0.01593	α(K)=0.01369 *20*; α(L)=0.00184 *3*; α(M)=0.000347 *5*; α(N+..)=5.72×10^{-5} *8* α(N)=5.72×10^{-5} *8*
389.2 *1*	0.27 *2*	2506.00	(9/2$^+$)	2116.98	(7/2$^+$,9/2$^+$)			
391.1 *1*	0.102 *9*	2622.76	(11/2$^+$,13/2$^+$)	2231.57	(11/2$^+$,13/2$^+$)			
401.2 *2*	0.09 *1*	2344.84	(7/2$^+$,9/2$^+$)	1943.50	(11/2$^+$)			
432.3 *1*	0.14 *2*	2375.77	(9/2$^+$,11/2$^+$,13/2$^+$)	1943.50	(11/2$^+$)			
444.4 *1*	0.63 *6*	3740.02	(11/2$^+$)	3295.73	(11/2$^+$)			
446.4 *1*	2.0 *1*	2587.64	(13/2$^+$)	2141.14	(13/2$^+$)			
452.2 *1*	0.22 *2*	2395.71	(11/2$^+$)	1943.50	(11/2$^+$)			
460.8 *2*	0.05 *1*	1998.70	(5/2$^+$,7/2$^+$,9/2$^+$)	1537.69	(7/2$^+$,9/2$^+$)			
469.5 *2*	0.09 *1*	3351.14	(11/2$^+$)	2881.84	(9/2$^+$,11/2$^+$)			
481.7 *1*	0.11 *1*	2622.76	(11/2$^+$,13/2$^+$)	2141.14	(13/2$^+$)			
487.9 *1*	0.16 *2*	2604.95		2116.98	(7/2$^+$,9/2$^+$)			
490.0 *1*	0.47 *4*	2371.67	(15/2$^+$)	1881.60	(13/2$^+$)			
494.2 *1*	1.8 *1*	2375.77	(9/2$^+$,11/2$^+$,13/2$^+$)	1881.60	(13/2$^+$)			
494.3 *1*	0.18 *2*	2890.03	(11/2$^+$)	2395.71	(11/2$^+$)			
498.0 *2*	0.09 *1*	2842.85		2344.84	(7/2$^+$,9/2$^+$)			
501.4 *1*	0.093 *9*	3001.59	(13/2$^+$)	2500.38	(15/2$^+$)			
503.3 *2*	0.07 *2*	2679.57	(9/2$^+$,11/2$^+$)	2176.25	(9/2$^+$)			
531.3 *1*	0.88 *7*	3740.02	(11/2$^+$)	3209.03	(13/2$^+$)			
535.5 *1*	0.09 *1*	2417.10		1881.60	(13/2$^+$)			
551.8 *2*	0.06 *1*	3382.83	(7/2$^+$,9/2$^+$)	2831.05	(9/2$^+$,11/2$^+$,13/2$^+$)			

^{97}Ag ε decay (25.5 s) 1999Hu10,1997Sc30,1982Ku15 (continued)

γ(^{97}Pd) (continued)

E_γ †	I_γ [a]	E_i(level)	J_i^π	E_f	J_f^π	Mult. ‡	δ	α [b]	Comments
554.7 *2*	0.019 *6*	3353.78	(7/2$^+$,9/2$^+$)	2799.33	(5/2$^+$,7/2$^+$,9/2$^+$)				
562.4 *1*	0.16 *2*	2506.00	(9/2$^+$)	1943.50	(11/2$^+$)				
565.3 *2*	0.053 *9*	2446.90		1881.60	(13/2$^+$)				
569.8 *1*	1.6 *1*	3865.45	(9/2$^+$,11/2$^+$)	3295.73	(11/2$^+$)				
573.1 *2*	0.035 *5*	2689.95		2116.98	(7/2$^+$,9/2$^+$)				
579.1 *2*	0.07 *1*	2116.98	(7/2$^+$,9/2$^+$)	1537.69	(7/2$^+$,9/2$^+$)				
585.7 *1*	0.67 *8*	4413.52	(7/2$^+$,9/2$^+$,11/2$^+$)	3827.82	(7/2$^+$,9/2$^+$,11/2$^+$)				
586.9 *1*	8.2 *6*	1881.60	(13/2$^+$)	1294.65	(9/2$^+$)	(E2)		0.00380	α(K)=0.00330 *5*; α(L)=0.000410 *6*; α(M)=7.71×10^{-5} *11*; α(N+..)=1.285×10^{-5} *18* α(N)=1.285×10^{-5} *18*
586.9 *1*	0.14 *2*	3209.03	(13/2$^+$)	2622.76	(11/2$^+$,13/2$^+$)				
591.3 *1*	0.32 *5*	3097.30		2506.00	(9/2$^+$)				
597.0 *1*	0.89 *7*	2134.66	(7/2$^+$,9/2$^+$)	1537.69	(7/2$^+$,9/2$^+$)				
597.5 *2*	0.23 *3*	3626.32	(7/2$^+$,9/2$^+$,11/2$^+$)	3029.21	(9/2$^+$)				
600.5 *1*	0.22 *2*	2481.91	(13/2$^+$)	1881.60	(13/2$^+$)				
608.1 *1*	1.7 *1*	1294.65	(9/2$^+$)	686.67	(7/2$^+$)	(M1+E2)	−3.5 *35*	0.00345 *7*	α(K)=0.00300 *8*; α(L)=0.000370 *13*; α(M)=6.9×10^{-5} *3*; α(N+..)=1.16×10^{-5} *4* α(N)=1.16×10^{-5} *4*
616.1 *1*	0.31 *4*	3295.73	(11/2$^+$)	2679.57	(9/2$^+$,11/2$^+$)				
618.9 *1*	0.19 *2*	2500.38	(15/2$^+$)	1881.60	(13/2$^+$)				
630.0 *3*	0.17 *4*	3925.59	(9/2$^+$)	3295.73	(11/2$^+$)				
633.6 *3*	0.05 *2*	2515.2		1881.60	(13/2$^+$)				
638.5 *1*	1.12 *8*	2176.25	(9/2$^+$)	1537.69	(7/2$^+$,9/2$^+$)				
643.9 *2*	0.06 *1*	2587.64	(13/2$^+$)	1943.50	(11/2$^+$)				
648.8 *1*	0.59 *5*	1943.50	(11/2$^+$)	1294.65	(9/2$^+$)				
650.3 *3*	0.020 *5*	4465.00	(9/2$^+$)	3814.7					
651.4 *2*	0.06 *1*	3157.00	(9/2$^+$,11/2$^+$)	2506.00	(9/2$^+$)				
652.9 *2*	0.020 *6*	4125.50	(11/2$^+$)	3473.15	(7/2$^+$,9/2$^+$,11/2$^+$)				
653.7 *1*	0.18 *2*	3983.29	(9/2$^+$)	3329.83					
656.8 *1*	0.061 *7*	4019.14	(9/2$^+$,11/2$^+$)	3362.37					
658.4 *1*	0.21 *2*	2890.03	(11/2$^+$)	2231.57	(11/2$^+$,13/2$^+$)				
666.9 *1*	0.19 *2*	2808.03		2141.14	(13/2$^+$)				
668.6 *2*	0.027 *4*	2842.85		2174.78	(5/2$^+$,7/2$^+$,9/2$^+$)				
671.4 *2*	0.11 *2*	3351.14	(11/2$^+$)	2679.57	(9/2$^+$,11/2$^+$)				
678.7 *4*	0.03 *1*	2622.76	(11/2$^+$,13/2$^+$)	1943.50	(11/2$^+$)				
686.3 *1*	0.26 *4*	3192.46	(9/2$^+$,11/2$^+$)	2506.00	(9/2$^+$)				
686.6 *1*	56.9 *28*	686.67	(7/2$^+$)	0.0	(5/2$^+$)	(M1+E2)	+0.19 *5*	0.00263	α(K)=0.00230 *4*; α(L)=0.000269 *4*; α(M)=5.04×10^{-5} *7*; α(N+..)=8.50×10^{-6} *12* α(N)=8.50×10^{-6} *12*
696.2 *1*	0.42 *4*	2831.05	(9/2$^+$,11/2$^+$,13/2$^+$)	2134.66	(7/2$^+$,9/2$^+$)				
708.2 *1*	0.55 *4*	3295.73	(11/2$^+$)	2587.64	(13/2$^+$)				

γ(^{97}Pd) (continued)

E_γ †	I_γ a	E_i(level)	J_i^π	E_f	J_f^π
708.3 2	0.059 9	2842.85		2134.66	(7/2$^+$,9/2$^+$)
710.9 1	0.47 5	3740.02	(11/2$^+$)	3029.21	(9/2$^+$)
724.8 2	0.13 3	4465.00	(9/2$^+$)	3740.02	(11/2$^+$)
724.9 2	0.026 7	3101.58	(7/2$^+$,9/2$^+$)	2376.64	(5/2$^+$,7/2$^+$,9/2$^+$)
735.4 3	0.02 1	3577.14	(9/2$^+$,11/2$^+$)	2842.85	
736.3 1	0.18 2	2679.57	(9/2$^+$,11/2$^+$)	1943.50	(11/2$^+$)
738.5 1	0.19 2	1782.32	(5/2$^+$)	1043.73	(7/2$^+$)
738.5 1	0.45 4	3740.02	(11/2$^+$)	3001.59	(13/2$^+$)
741.1 1	0.74 6	2622.76	(11/2$^+$,13/2$^+$)	1881.60	(13/2$^+$)
745.4 1	0.03 1	2283.43	(5/2$^+$)	1537.69	(7/2$^+$,9/2$^+$)
749.2 2	0.12 1	2890.03	(11/2$^+$)	2141.14	(13/2$^+$)
750.8 2	0.047 8	4105.37	(7/2$^+$,9/2$^+$)	3353.78	(7/2$^+$,9/2$^+$)
751.2 2	0.10 2	3373.55	(9/2$^+$)	2622.76	(11/2$^+$,13/2$^+$)
761.4 2	0.05 1	3157.00	(9/2$^+$,11/2$^+$)	2395.71	(11/2$^+$)
763.5 3	0.04 1	2881.84	(9/2$^+$,11/2$^+$)	2116.98	(7/2$^+$,9/2$^+$)
763.6 1	0.31 3	3351.14	(11/2$^+$)	2587.64	(13/2$^+$)
775.0 1	0.43 3	774.98	(1/2$^+$)	0.0	(5/2$^+$)
781.2 1	0.22 2	3157.00	(9/2$^+$,11/2$^+$)	2375.77	(9/2$^+$,11/2$^+$,13/2$^+$)
782.6 2	0.08 1	2923.74		2141.14	(13/2$^+$)
785.7 2	0.16 3	5004.86	(7/2$^+$,9/2$^+$,11/2$^+$)	4219.16	(7/2$^+$,9/2$^+$)
786.1 1	0.36 3	3373.55	(9/2$^+$)	2587.64	(13/2$^+$)
790.4 3	0.033 8	3983.29	(9/2$^+$)	3192.46	(9/2$^+$,11/2$^+$)
796.4 2	0.07 1	3192.46	(9/2$^+$,11/2$^+$)	2395.71	(11/2$^+$)
797.2 2	0.076 9	2679.57	(9/2$^+$,11/2$^+$)	1881.60	(13/2$^+$)
807.1 1	0.25 2	2344.84	(7/2$^+$,9/2$^+$)	1537.69	(7/2$^+$,9/2$^+$)
817.5 3	0.025 8	3101.58	(7/2$^+$,9/2$^+$)	2283.43	(5/2$^+$)
822.3 1	1.01 8	2116.98	(7/2$^+$,9/2$^+$)	1294.65	(9/2$^+$)
823.2 2	0.15 2	3503.03	(7/2$^+$,9/2$^+$,11/2$^+$)	2679.57	(9/2$^+$,11/2$^+$)
834.2 2	0.07 1	3010.05	(7/2$^+$,9/2$^+$,11/2$^+$)	2176.25	(9/2$^+$)
837.2 1	0.47 4	3209.03	(13/2$^+$)	2371.67	(15/2$^+$)
838.8 1	0.31 3	2376.64	(5/2$^+$,7/2$^+$,9/2$^+$)	1537.69	(7/2$^+$,9/2$^+$)
840.0 1	1.22 9	2134.66	(7/2$^+$,9/2$^+$)	1294.65	(9/2$^+$)
844.8 2	0.08 1	2842.85		1998.70	(5/2$^+$,7/2$^+$,9/2$^+$)
845.6 2	0.022 5	4318.62	(7/2$^+$,9/2$^+$)	3473.15	(7/2$^+$,9/2$^+$,11/2$^+$)
846.3 1	4.7 3	2141.14	(13/2$^+$)	1294.65	(9/2$^+$)
848.7 2	0.034 7	3192.46	(9/2$^+$,11/2$^+$)	2344.84	(7/2$^+$,9/2$^+$)
850.1 1	0.95 8	3740.02	(11/2$^+$)	2890.03	(11/2$^+$)
858.2 2	0.042 9	2395.71	(11/2$^+$)	1537.69	(7/2$^+$,9/2$^+$)
858.8 2	0.07 1	3740.02	(11/2$^+$)	2881.84	(9/2$^+$,11/2$^+$)
860.4 1	0.062 9	3001.59	(13/2$^+$)	2141.14	(13/2$^+$)
861.3 2	0.063 9	3105.56	(13/2$^+$,15/2$^+$)	2244.26	(17/2$^+$)
868.4 2	0.10 2	3473.15	(7/2$^+$,9/2$^+$,11/2$^+$)	2604.95	
877.1 1	0.23 2	3382.83	(7/2$^+$,9/2$^+$)	2506.00	(9/2$^+$)

$^{97}_{46}Pd_{51}$-11

^{97}Ag ε decay (25.5 s) 1999Hu10,1997Sc30,1982Ku15 (continued)

γ(^{97}Pd) (continued)

E_γ [†]	I_γ [a]	E_i(level)	J_i^π	E_f	J_f^π
881.1 *2*	0.05 *1*	3503.03	(7/2$^+$,9/2$^+$,11/2$^+$)	2622.76	(11/2$^+$,13/2$^+$)
881.7 *1*	0.12 *2*	3983.29	(9/2$^+$)	3101.58	(7/2$^+$,9/2$^+$)
887.5 *1*	0.12 *1*	3029.21	(9/2$^+$)	2141.14	(13/2$^+$)
892.3 *1*	0.16 *1*	1936.04		1043.73	(7/2$^+$)
892.9 *1*	0.11 *1*	3010.05	(7/2$^+$,9/2$^+$,11/2$^+$)	2116.98	(7/2$^+$,9/2$^+$)
900.2 *1*	0.22 *2*	3295.73	(11/2$^+$)	2395.71	(11/2$^+$)
904.1 *2*	0.09 *1*	3280.27	(5/2$^+$,7/2$^+$,9/2$^+$)	2375.77	(9/2$^+$,11/2$^+$,13/2$^+$)
907.6 *2*	0.08 *1*	2689.95		1782.32	(5/2$^+$)
907.7 *3*	0.06 *2*	3790.48	(7/2$^+$,9/2$^+$,11/2$^+$)	2881.84	(9/2$^+$,11/2$^+$)
912.1 *1*	0.32 *3*	3029.21	(9/2$^+$)	2116.98	(7/2$^+$,9/2$^+$)
916.2 *1*	0.19 *2*	4125.50	(11/2$^+$)	3209.03	(13/2$^+$)
920.1 *1*	0.14 *1*	3295.73	(11/2$^+$)	2375.77	(9/2$^+$,11/2$^+$,13/2$^+$)
925.4 *1*	0.14 *2*	3101.58	(7/2$^+$,9/2$^+$)	2176.25	(9/2$^+$)
930.6 *3*	0.04 *1*	4285.72	(7/2$^+$,9/2$^+$)	3353.78	(7/2$^+$,9/2$^+$)
931.6 *3*	0.031 *8*	4123.28	(9/2$^+$)	3192.46	(9/2$^+$,11/2$^+$)
931.8 *5*	0.10 *4*	5151.0	(7/2$^+$,9/2$^+$,11/2$^+$)	4219.16	(7/2$^+$,9/2$^+$)
936.9 *1*	1.11 *9*	2231.57	(11/2$^+$,13/2$^+$)	1294.65	(9/2$^+$)
937.2 *1*	0.10 *1*	1712.03	(5/2$^+$)	774.98	(1/2$^+$)
938.4 *1*	0.34 *3*	2881.84	(9/2$^+$,11/2$^+$)	1943.50	(11/2$^+$)
946.0 *1*	0.07 *2*	4318.62	(7/2$^+$,9/2$^+$)	3373.55	(9/2$^+$)
946.4 *1*	0.45 *4*	2890.03	(11/2$^+$)	1943.50	(11/2$^+$)
949.3 *3*	0.028 *7*	2831.05	(9/2$^+$,11/2$^+$,13/2$^+$)	1881.60	(13/2$^+$)
950.7 *3*	1.0 *2*	3295.73	(11/2$^+$)	2344.84	(7/2$^+$,9/2$^+$)
953.4 *2*	0.05 *1*	3329.83		2376.64	(5/2$^+$,7/2$^+$,9/2$^+$)
954.5 *2*	0.18 *2*	3983.29	(9/2$^+$)	3029.21	(9/2$^+$)
955.1 *1*	1.19 *9*	1998.70	(5/2$^+$,7/2$^+$,9/2$^+$)	1043.73	(7/2$^+$)
955.4 *1*	0.19 *3*	3351.14	(11/2$^+$)	2395.71	(11/2$^+$)
955.6 *2*	0.06 *1*	4285.72	(7/2$^+$,9/2$^+$)	3329.83	
958.5 *1*	0.21 *2*	2496.01	(7/2$^+$,9/2$^+$)	1537.69	(7/2$^+$,9/2$^+$)
967.6 *2*	0.13 *2*	3473.15	(7/2$^+$,9/2$^+$,11/2$^+$)	2506.00	(9/2$^+$)
973.3 *2*	0.07 *2*	3983.29	(9/2$^+$)	3010.05	(7/2$^+$,9/2$^+$,11/2$^+$)
976.8 *3*	0.06 *1*	3353.78	(7/2$^+$,9/2$^+$)	2376.64	(5/2$^+$,7/2$^+$,9/2$^+$)
980.6 *1*	0.21 *2*	3157.00	(9/2$^+$,11/2$^+$)	2176.25	(9/2$^+$)
981.5 *1*	0.08 *1*	2763.82		1782.32	(5/2$^+$)
985.2 *2*	0.05 *1*	3329.83		2344.84	(7/2$^+$,9/2$^+$)
988.7 *2*	0.06 *1*	4318.62	(7/2$^+$,9/2$^+$)	3329.83	
990.7 *2*	0.07 *1*	3790.48	(7/2$^+$,9/2$^+$,11/2$^+$)	2799.33	(5/2$^+$,7/2$^+$,9/2$^+$)
991.5 *2*	0.037 *9*	4465.00	(9/2$^+$)	3473.15	(7/2$^+$,9/2$^+$,11/2$^+$)
997.1 *2*	0.20 *3*	3503.03	(7/2$^+$,9/2$^+$,11/2$^+$)	2506.00	(9/2$^+$)
997.8 *1*	0.17 *2*	3373.55	(9/2$^+$)	2375.77	(9/2$^+$,11/2$^+$,13/2$^+$)
1006.1 *1*	0.14 *2*	3382.83	(7/2$^+$,9/2$^+$)	2376.64	(5/2$^+$,7/2$^+$,9/2$^+$)
1008.3 *1*	0.76 *6*	2890.03	(11/2$^+$)	1881.60	(13/2$^+$)
1009.5 *2*	0.047 *8*	3353.78	(7/2$^+$,9/2$^+$)	2344.84	(7/2$^+$,9/2$^+$)

$^{97}_{46}Pd_{51}$-12

γ(^{97}Pd) (continued)

E_γ[†]	I_γ[a]	E_i(level)	J_i^π	E_f	J_f^π
1016.1 *3*	0.04 *1*	3157.00	(9/2$^+$,11/2$^+$)	2141.14	(13/2$^+$)
1017.0 *2*	0.07 *1*	2799.33	(5/2$^+$,7/2$^+$,9/2$^+$)	1782.32	(5/2$^+$)
1030.7 *1*	0.14 *2*	3029.21	(9/2$^+$)	1998.70	(5/2$^+$,7/2$^+$,9/2$^+$)
1037.9 *1*	0.17 *2*	3382.83	(7/2$^+$,9/2$^+$)	2344.84	(7/2$^+$,9/2$^+$)
1043.7[#] *1*	2.6 *1*	1043.73	(7/2$^+$)	0.0	(5/2$^+$)
1050.6 *2*	0.08 *2*	2344.84	(7/2$^+$,9/2$^+$)	1294.65	(9/2$^+$)
1052.5 *2*	0.11 *1*	3558.44	(9/2$^+$,11/2$^+$)	2506.00	(9/2$^+$)
1055.8 *2*	0.13 *2*	4264.42	(11/2$^+$)	3209.03	(13/2$^+$)
1058.0 *2*	0.058 *9*	3001.59	(13/2$^+$)	1943.50	(11/2$^+$)
1060.1 *3*	0.11 *3*	3740.02	(11/2$^+$)	2679.57	(9/2$^+$,11/2$^+$)
1063.8 *2*	0.18 *3*	3295.73	(11/2$^+$)	2231.57	(11/2$^+$,13/2$^+$)
1067.3 *1*	0.17 *2*	2604.95		1537.69	(7/2$^+$,9/2$^+$)
1067.9 *4*	0.12 *1*	3209.03	(13/2$^+$)	2141.14	(13/2$^+$)
1071.3 *3*	0.05 *1*	3577.14	(9/2$^+$,11/2$^+$)	2506.00	(9/2$^+$)
1073.5 *3*	0.051 *8*	2116.98	(7/2$^+$,9/2$^+$)	1043.73	(7/2$^+$)
1079.9 *3*	0.12 *1*	2961.54	(9/2$^+$,11/2$^+$,13/2$^+$)	1881.60	(13/2$^+$)
1082.0 *2*	0.11 *2*	4465.00	(9/2$^+$)	3382.83	(7/2$^+$,9/2$^+$)
1085.8 *1*	0.21 *2*	3029.21	(9/2$^+$)	1943.50	(11/2$^+$)
1087.4 *1*	0.043 *7*	2799.33	(5/2$^+$,7/2$^+$,9/2$^+$)	1712.03	(5/2$^+$)
1088.0 *1*	0.09 *1*	2131.67		1043.73	(7/2$^+$)
1093.7 *3*	0.029 *5*	2137.4		1043.73	(7/2$^+$)
1096.0 *2*	0.34 *5*	4125.50	(11/2$^+$)	3029.21	(9/2$^+$)
1096.7 *2*	0.054 *9*	3473.15	(7/2$^+$,9/2$^+$,11/2$^+$)	2376.64	(5/2$^+$,7/2$^+$,9/2$^+$)
1100.9 *1*	1.7 *1*	2395.71	(11/2$^+$)	1294.65	(9/2$^+$)
1101.5 *2*	0.11 *2*	3983.29	(9/2$^+$)	2881.84	(9/2$^+$,11/2$^+$)
1102.2 *2*	0.063 *9*	2884.52		1782.32	(5/2$^+$)
1103.0 *1*	0.55 *5*	3101.58	(7/2$^+$,9/2$^+$)	1998.70	(5/2$^+$,7/2$^+$,9/2$^+$)
1111.5 *2*	0.05 *1*	4465.00	(9/2$^+$)	3353.78	(7/2$^+$,9/2$^+$)
1113.6 *3*	0.03 *1*	4123.28	(9/2$^+$)	3010.05	(7/2$^+$,9/2$^+$,11/2$^+$)
1117.1 *2*	0.15 *3*	3740.02	(11/2$^+$)	2622.76	(11/2$^+$,13/2$^+$)
1119.4 *1*	0.60 *6*	3295.73	(11/2$^+$)	2176.25	(9/2$^+$)
1119.4 *2*	0.08 *2*	3351.14	(11/2$^+$)	2231.57	(11/2$^+$,13/2$^+$)
1119.8 *2*	0.26 *3*	3001.59	(13/2$^+$)	1881.60	(13/2$^+$)
1119.9 *2*	0.14 *2*	3626.32	(7/2$^+$,9/2$^+$,11/2$^+$)	2506.00	(9/2$^+$)
1126.0 *2*	0.08 *1*	3503.03	(7/2$^+$,9/2$^+$,11/2$^+$)	2376.64	(5/2$^+$,7/2$^+$,9/2$^+$)
1127.4 *3*	0.08 *2*	3303.7		2176.25	(9/2$^+$)
1131.7 *4*	0.05 *1*	4013.64	(7/2$^+$,9/2$^+$)	2881.84	(9/2$^+$,11/2$^+$)
1135.2 *2*	0.09 *2*	4430.52	(7/2$^+$,9/2$^+$,11/2$^+$)	3295.73	(11/2$^+$)
1135.3 *2*	0.13 *2*	4465.00	(9/2$^+$)	3329.83	
1137.4 *1*	0.41 *4*	4019.14	(9/2$^+$,11/2$^+$)	2881.84	(9/2$^+$,11/2$^+$)
1140.3 *2*	0.05 *2*	3983.29	(9/2$^+$)	2842.85	
1141.9 *1*	0.54 *4*	2679.57	(9/2$^+$,11/2$^+$)	1537.69	(7/2$^+$,9/2$^+$)
1141.9 *5*	0.05 *1*	3023.5		1881.60	(13/2$^+$)

$^{97}_{46}Pd_{51}$-13

^{97}Ag ε decay (25.5 s) 1999Hu10,1997Sc30,1982Ku15 (continued)

γ(^{97}Pd) (continued)

E_γ[†]	I_γ[a]	E_i(level)	J_i^π	E_f	J_f^π	Mult.[‡]	α[b]	Comments
1147.8 *2*	0.19 *2*	3029.21	(9/2$^+$)	1881.60	(13/2$^+$)			
1151.5 *1*	0.064 *8*	3382.83	(7/2$^+$,9/2$^+$)	2231.57	(11/2$^+$,13/2$^+$)			
1152.4[@] *1*	1.27 *9*	3740.02	(11/2$^+$)	2587.64	(13/2$^+$)			
1152.4 *4*	0.14 *4*	3983.29	(9/2$^+$)	2831.05	(9/2$^+$,11/2$^+$,13/2$^+$)			
1156.4 *2*	0.14 *1*	3740.02	(11/2$^+$)	2583.31				
1162.5 *2*	0.06 *1*	3558.44	(9/2$^+$,11/2$^+$)	2395.71	(11/2$^+$)			
1174.8 *1*	0.22 *2*	3351.14	(11/2$^+$)	2176.25	(9/2$^+$)			
1178.9 *5*	0.030 *9*	3353.78	(7/2$^+$,9/2$^+$)	2176.25	(9/2$^+$)			
1179.2 *2*	0.043 *9*	3353.78	(7/2$^+$,9/2$^+$)	2174.78	(5/2$^+$,7/2$^+$,9/2$^+$)			
1181.8 *2*	0.056 *9*	3577.14	(9/2$^+$,11/2$^+$)	2395.71	(11/2$^+$)			
1182.8 *1*	0.037 *6*	3558.44	(9/2$^+$,11/2$^+$)	2375.77	(9/2$^+$,11/2$^+$,13/2$^+$)			
1189.0 *2*	0.07 *1*	4019.14	(9/2$^+$,11/2$^+$)	2831.05	(9/2$^+$,11/2$^+$,13/2$^+$)			
1195.5 *1*	0.07 *1*	3591.05	(9/2$^+$,11/2$^+$)	2395.71	(11/2$^+$)			
1200.4 *1*	0.19 *2*	3577.14	(9/2$^+$,11/2$^+$)	2376.64	(5/2$^+$,7/2$^+$,9/2$^+$)			
1204.8 *2*	0.07 *1*	3686.60		2481.91	(13/2$^+$)			
1204.9 *2*	0.011 *9*	3086.51		1881.60	(13/2$^+$)			
1206.5 *1*	0.22 *2*	3382.83	(7/2$^+$,9/2$^+$)	2176.25	(9/2$^+$)			
1210.1 *1*	0.28 *3*	3351.14	(11/2$^+$)	2141.14	(13/2$^+$)			
1211.0 *1*	1.9 *2*	2506.00	(9/2$^+$)	1294.65	(9/2$^+$)			
1212.1 *2*	0.08 *1*	4105.37	(7/2$^+$,9/2$^+$)	2893.24				
1233.2 *2*	0.034 *9*	3373.55	(9/2$^+$)	2141.14	(13/2$^+$)			
1233.5 *1*	0.26 *6*	3740.02	(11/2$^+$)	2506.00	(9/2$^+$)			
1240.6 *2*	0.09 *2*	4040.22	(7/2$^+$,9/2$^+$)	2799.33	(5/2$^+$,7/2$^+$,9/2$^+$)			
1241.5 *1*	0.12 *2*	3473.15	(7/2$^+$,9/2$^+$,11/2$^+$)	2231.57	(11/2$^+$,13/2$^+$)			
1244.1 *3*	0.043 *9*	4125.50	(11/2$^+$)	2881.84	(9/2$^+$,11/2$^+$)			
1244.4 *3*	0.05 *1*	3740.02	(11/2$^+$)	2496.01	(7/2$^+$,9/2$^+$)			
1246.7 *3*	0.029 *7*	3029.21	(9/2$^+$)	1782.32	(5/2$^+$)			
1246.8 *3*	0.08 *2*	3382.83	(7/2$^+$,9/2$^+$)	2134.66	(7/2$^+$,9/2$^+$)			
1250.4 *2*	0.037 *6*	3626.32	(7/2$^+$,9/2$^+$,11/2$^+$)	2375.77	(9/2$^+$,11/2$^+$,13/2$^+$)			
1256.8 *1*	10.1 *7*	1943.50	(11/2$^+$)	686.67	(7/2$^+$)			
1256.9 *1*	0.21 *3*	4285.72	(7/2$^+$,9/2$^+$)	3029.21	(9/2$^+$)			
1265.2 *1*	0.16 *2*	3209.03	(13/2$^+$)	1943.50	(11/2$^+$)			
1275.4 *1*	0.10 *1*	3157.00	(9/2$^+$,11/2$^+$)	1881.60	(13/2$^+$)			
1284.0 *2*	0.038 *7*	3066.33		1782.32	(5/2$^+$)			
1284.6 *1*	0.26 *2*	3790.48	(7/2$^+$,9/2$^+$,11/2$^+$)	2506.00	(9/2$^+$)			
1288.5 *1*	0.43 *4*	2583.31		1294.65	(9/2$^+$)			
1294.7 *1*	24.6 *12*	1294.65	(9/2$^+$)	0.0	(5/2$^+$)	(E2)	6.00×10^{-4}	α(K)=0.000505 *7*; α(L)=5.86×10^{-5} *9*; α(M)=1.097×10^{-5} *16*; α(N+..)=2.53×10^{-5} *4* α(N)=1.85×10^{-6} *3*; α(IPF)=2.35×10^{-5} *4*
1294.8 *2*	0.24 *3*	3429.47		2134.66	(7/2$^+$,9/2$^+$)			
1297.2 *2*	0.05 *1*	3473.15	(7/2$^+$,9/2$^+$,11/2$^+$)	2176.25	(9/2$^+$)			
1303.7 *3*	0.07 *2*	3983.29	(9/2$^+$)	2679.57	(9/2$^+$,11/2$^+$)			
1305.1 *1*	0.20 *2*	2842.85		1537.69	(7/2$^+$,9/2$^+$)			

γ(^{97}Pd) (continued)

E_γ †	I_γ a	E_i(level)	J_i^π	E_f	J_f^π
1306.1 2	0.14 2	4105.37	(7/2$^+$,9/2$^+$)	2799.33	(5/2$^+$,7/2$^+$,9/2$^+$)
1309.7 12	0.20 3	2604.95		1294.65	(9/2$^+$)
1311.7 1	0.14 1	4142.69	(9/2$^+$,11/2$^+$)	2831.05	(9/2$^+$,11/2$^+$,13/2$^+$)
1312.2 1	0.88 8	1998.70	(5/2$^+$,7/2$^+$,9/2$^+$)	686.67	(7/2$^+$)
1317.5 2	0.042 6	4125.50	(11/2$^+$)	2808.03	
1319.2 3	0.039 7	3101.58	(7/2$^+$,9/2$^+$)	1782.32	(5/2$^+$)
1326.3 3	0.05 1	3503.03	(7/2$^+$,9/2$^+$,11/2$^+$)	2176.25	(9/2$^+$)
1328.1 2	0.30 6	2622.76	(11/2$^+$,13/2$^+$)	1294.65	(9/2$^+$)
1339.5 2	0.14 2	4019.14	(9/2$^+$,11/2$^+$)	2679.57	(9/2$^+$,11/2$^+$)
1344.2 1	0.49 4	3740.02	(11/2$^+$)	2395.71	(11/2$^+$)
1345.0 1	0.09 2	3226.61		1881.60	(13/2$^+$)
1345.3 1	0.108 9	3577.14	(9/2$^+$,11/2$^+$)	2231.57	(11/2$^+$,13/2$^+$)
1352.7 2	0.28 4	3295.73	(11/2$^+$)	1943.50	(11/2$^+$)
1355.5 2	0.055 9	2893.24		1537.69	(7/2$^+$,9/2$^+$)
1356.3 3	0.035 6	3473.15	(7/2$^+$,9/2$^+$,11/2$^+$)	2116.98	(7/2$^+$,9/2$^+$)
1356.6 1	0.077 7	2131.67		774.98	(1/2$^+$)
1360.2 1	0.09 1	3983.29	(9/2$^+$)	2622.76	(11/2$^+$,13/2$^+$)
1363.7 2	0.07 1	3759.42		2395.71	(11/2$^+$)
1364.1 1	1.02 8	3740.02	(11/2$^+$)	2375.77	(9/2$^+$,11/2$^+$,13/2$^+$)
1376.0 2	0.12 2	4265.96	(9/2$^+$)	2890.03	(11/2$^+$)
1384.9 2	0.15 2	2679.57	(9/2$^+$,11/2$^+$)	1294.65	(9/2$^+$)
1395.0 3	0.06 1	3740.02	(11/2$^+$)	2344.84	(7/2$^+$,9/2$^+$)
1395.9 1	0.09 1	4019.14	(9/2$^+$,11/2$^+$)	2622.76	(11/2$^+$,13/2$^+$)
1407.6 1	0.86 7	3351.14	(11/2$^+$)	1943.50	(11/2$^+$)
1413.9 1	0.14 2	3295.73	(11/2$^+$)	1881.60	(13/2$^+$)
1414.8 2	0.16 2	3591.05	(9/2$^+$,11/2$^+$)	2176.25	(9/2$^+$)
1419.0 2	0.07 1	3362.37		1943.50	(11/2$^+$)
1423.0 2	0.08 2	4265.96	(9/2$^+$)	2842.85	
1425.1 3	0.046 8	4256.2		2831.05	(9/2$^+$,11/2$^+$,13/2$^+$)
1428.6 2	0.10 2	4318.62	(7/2$^+$,9/2$^+$)	2890.03	(11/2$^+$)
1430.3 1	0.55 5	2116.98	(7/2$^+$,9/2$^+$)	686.67	(7/2$^+$)
1431.6 2	0.047 5	4019.14	(9/2$^+$,11/2$^+$)	2587.64	(13/2$^+$)
1431.9 3	0.06 1	3827.82	(7/2$^+$,9/2$^+$,11/2$^+$)	2395.71	(11/2$^+$)
1435.4 2	0.21 3	4040.22	(7/2$^+$,9/2$^+$)	2604.95	
1435.5 2	0.17 3	4465.00	(9/2$^+$)	3029.21	(9/2$^+$)
1437.1 3	0.035 8	3781.9		2344.84	(7/2$^+$,9/2$^+$)
1439.3 2	0.04 1	3382.83	(7/2$^+$,9/2$^+$)	1943.50	(11/2$^+$)
1442.9 2	0.08 2	4285.72	(7/2$^+$,9/2$^+$)	2842.85	
1446.1 2	0.10 4	4125.50	(11/2$^+$)	2679.57	(9/2$^+$,11/2$^+$)
1448.0 1	2.3 2	2134.66	(7/2$^+$,9/2$^+$)	686.67	(7/2$^+$)
1450.3 3	0.049 8	3626.32	(7/2$^+$,9/2$^+$,11/2$^+$)	2176.25	(9/2$^+$)
1451.1 2	0.14 2	3827.82	(7/2$^+$,9/2$^+$,11/2$^+$)	2376.64	(5/2$^+$,7/2$^+$,9/2$^+$)
1456.4 5	0.04 2	3591.05	(9/2$^+$,11/2$^+$)	2134.66	(7/2$^+$,9/2$^+$)

$^{97}_{46}Pd_{51}$-15

^{97}Ag ε decay (25.5 s) 1999Hu10,1997Sc30,1982Ku15 (continued)

γ(^{97}Pd) (continued)

E_γ [†]	I_γ [a]	E_i(level)	J_i^π	E_f	J_f^π
1460.6 *2*	0.10 *2*	3577.14	(9/2$^+$,11/2$^+$)	2116.98	(7/2$^+$,9/2$^+$)
1467.2 *3*	0.08 *2*	4265.96	(9/2$^+$)	2799.33	(5/2$^+$,7/2$^+$,9/2$^+$)
1469.5 *2*	0.034 *7*	3351.14	(11/2$^+$)	1881.60	(13/2$^+$)
1473.3 *3*	0.032 *8*	3010.05	(7/2$^+$,9/2$^+$,11/2$^+$)	1537.69	(7/2$^+$,9/2$^+$)
1480.7 *3*	0.026 *7*	3018.4		1537.69	(7/2$^+$,9/2$^+$)
1482.9 *2*	0.14 *2*	3827.82	(7/2$^+$,9/2$^+$,11/2$^+$)	2344.84	(7/2$^+$,9/2$^+$)
1486.5 *2*	0.14 *2*	4285.72	(7/2$^+$,9/2$^+$)	2799.33	(5/2$^+$,7/2$^+$,9/2$^+$)
1489.3 *1*	0.09 *2*	2783.96		1294.65	(9/2$^+$)
1489.5 *1*	7.7 *6*	2176.25	(9/2$^+$)	686.67	(7/2$^+$)
1492.1 *1*	0.030 *7*	3029.21	(9/2$^+$)	1537.69	(7/2$^+$,9/2$^+$)
1492.6 *2*	0.047 *8*	3373.55	(9/2$^+$)	1881.60	(13/2$^+$)
1502.6 *1*	0.060 *8*	4125.50	(11/2$^+$)	2622.76	(11/2$^+$,13/2$^+$)
1508.2 *2*	0.049 *7*	2283.43	(5/2$^+$)	774.98	(1/2$^+$)
1508.5 *2*	0.14 *2*	3740.02	(11/2$^+$)	2231.57	(11/2$^+$,13/2$^+$)
1513.3 *1*	0.24 *2*	4019.14	(9/2$^+$,11/2$^+$)	2506.00	(9/2$^+$)
1517.5 *5*	0.04 *1*	4123.28	(9/2$^+$)	2604.95	
1530.2 *4*	0.03 *1*	3067.9		1537.69	(7/2$^+$,9/2$^+$)
1533.8 *1*	0.035 *6*	4040.22	(7/2$^+$,9/2$^+$)	2506.00	(9/2$^+$)
1537.1 *1*	0.32 *3*	2831.05	(9/2$^+$,11/2$^+$,13/2$^+$)	1294.65	(9/2$^+$)
1537.7 *1*	5.9 *3*	1537.69	(7/2$^+$,9/2$^+$)	0.0	(5/2$^+$)
1547.2 *1*	0.058 *8*	4053.06	(7/2$^+$,9/2$^+$,11/2$^+$)	2506.00	(9/2$^+$)
1549.1 *2*	0.06 *1*	3925.59	(9/2$^+$)	2376.64	(5/2$^+$,7/2$^+$,9/2$^+$)
1561.1 *1*	0.085 *9*	2604.95		1043.73	(7/2$^+$)
1562.8 *2*	0.050 *8*	4068.54		2506.00	(9/2$^+$)
1563.7 *1*	2.0 *1*	3740.02	(11/2$^+$)	2176.25	(9/2$^+$)
1571.2 *2*	0.13 *2*	3353.78	(7/2$^+$,9/2$^+$)	1782.32	(5/2$^+$)
1587.3 *1*	0.36 *3*	2881.84	(9/2$^+$,11/2$^+$)	1294.65	(9/2$^+$)
1595.8 *1*	1.09 *8*	2890.03	(11/2$^+$)	1294.65	(9/2$^+$)
1595.8 *3*	0.09 *2*	3712.81		2116.98	(7/2$^+$,9/2$^+$)
1596.2 *1*	0.43 *3*	3827.82	(7/2$^+$,9/2$^+$,11/2$^+$)	2231.57	(11/2$^+$,13/2$^+$)
1598.8 *2*	0.16 *2*	3740.02	(11/2$^+$)	2141.14	(13/2$^+$)
1605.2 *2*	0.21 *3*	3740.02	(11/2$^+$)	2134.66	(7/2$^+$,9/2$^+$)
1612.9 *2*	0.18 *3*	4219.16	(7/2$^+$,9/2$^+$)	2604.95	
1614.3 *1*	0.047 *9*	3790.48	(7/2$^+$,9/2$^+$,11/2$^+$)	2176.25	(9/2$^+$)
1615.2 *3*	0.033 *8*	3558.44	(9/2$^+$,11/2$^+$)	1943.50	(11/2$^+$)
1615.9 *2*	0.05 *1*	3790.48	(7/2$^+$,9/2$^+$,11/2$^+$)	2174.78	(5/2$^+$,7/2$^+$,9/2$^+$)
1620.1 *4*	0.027 *7*	4125.50	(11/2$^+$)	2506.00	(9/2$^+$)
1622.7 *4*	0.026 *7*	3967.6		2344.84	(7/2$^+$,9/2$^+$)
1623.1 *1*	0.09 *1*	3740.02	(11/2$^+$)	2116.98	(7/2$^+$,9/2$^+$)
1623.4 *2*	0.034 *6*	4019.14	(9/2$^+$,11/2$^+$)	2395.71	(11/2$^+$)
1633.5 *2*	0.040 *9*	3577.14	(9/2$^+$,11/2$^+$)	1943.50	(11/2$^+$)
1634.7 *2*	0.068 *9*	4465.00	(9/2$^+$)	2831.05	(9/2$^+$,11/2$^+$,13/2$^+$)
1636.9 *3*	0.04 *1*	4013.64	(7/2$^+$,9/2$^+$)	2376.64	(5/2$^+$,7/2$^+$,9/2$^+$)

γ(^{97}Pd) (continued)

E_γ †	I_γ a	E_i(level)	J_i^π	E_f	J_f^π
1638.4 3	0.06 1	3983.29	(9/2$^+$)	2344.84	(7/2$^+$,9/2$^+$)
1643.0 2	0.051 9	4019.14	(9/2$^+$,11/2$^+$)	2375.77	(9/2$^+$,11/2$^+$,13/2$^+$)
1646.9 4	0.057 9	3591.05	(9/2$^+$,11/2$^+$)	1943.50	(11/2$^+$)
1651.5 2	0.10 1	3827.82	(7/2$^+$,9/2$^+$,11/2$^+$)	2176.25	(9/2$^+$)
1653.1 4	0.015 4	3827.82	(7/2$^+$,9/2$^+$,11/2$^+$)	2174.78	(5/2$^+$,7/2$^+$,9/2$^+$)
1654.8 3	0.09 2	3192.46	(9/2$^+$,11/2$^+$)	1537.69	(7/2$^+$,9/2$^+$)
1656.9 2	0.029 5	4053.06	(7/2$^+$,9/2$^+$,11/2$^+$)	2395.71	(11/2$^+$)
1658.1 1	1.6 1	2344.84	(7/2$^+$,9/2$^+$)	686.67	(7/2$^+$)
1663.8 2	0.12 2	4040.22	(7/2$^+$,9/2$^+$)	2376.64	(5/2$^+$,7/2$^+$,9/2$^+$)
1668.7 4	0.023 5	4013.64	(7/2$^+$,9/2$^+$)	2344.84	(7/2$^+$,9/2$^+$)
1673.0 2	0.042 9	3790.48	(7/2$^+$,9/2$^+$,11/2$^+$)	2116.98	(7/2$^+$,9/2$^+$)
1676.6 2	0.08 1	3558.44	(9/2$^+$,11/2$^+$)	1881.60	(13/2$^+$)
1678.6 1	0.027 5	3622.11		1943.50	(11/2$^+$)
1680.4 3	0.018 6	3856.50		2176.25	(9/2$^+$)
1681.3 3	0.012 4	3856.50		2174.78	(5/2$^+$,7/2$^+$,9/2$^+$)
1690.2 2	0.09 2	2376.64	(5/2$^+$,7/2$^+$,9/2$^+$)	686.67	(7/2$^+$)
1693.3 2	0.13 2	3827.82	(7/2$^+$,9/2$^+$,11/2$^+$)	2134.66	(7/2$^+$,9/2$^+$)
1694.9 4	0.04 1	4040.22	(7/2$^+$,9/2$^+$)	2344.84	(7/2$^+$,9/2$^+$)
1695.5 2	0.032 7	3577.14	(9/2$^+$,11/2$^+$)	1881.60	(13/2$^+$)
1698.8 2	0.025 7	3983.29	(9/2$^+$)	2283.43	(5/2$^+$)
1701.3 3	0.037 6	4532.4		2831.05	(9/2$^+$,11/2$^+$,13/2$^+$)
1708.2 3	0.028 8	4053.06	(7/2$^+$,9/2$^+$,11/2$^+$)	2344.84	(7/2$^+$,9/2$^+$)
1709.1 2	0.18 3	2395.71	(11/2$^+$)	686.67	(7/2$^+$)
1709.3 1	0.13 1	3591.05	(9/2$^+$,11/2$^+$)	1881.60	(13/2$^+$)
1711.0 1	0.09 1	3827.82	(7/2$^+$,9/2$^+$,11/2$^+$)	2116.98	(7/2$^+$,9/2$^+$)
1712.2 4	0.085 9	1712.03	(5/2$^+$)	0.0	(5/2$^+$)
1713.3 2	0.20 3	4318.62	(7/2$^+$,9/2$^+$)	2604.95	
1715.5 3	0.13 4	3010.05	(7/2$^+$,9/2$^+$,11/2$^+$)	1294.65	(9/2$^+$)
1724.0 1	0.11 1	3858.68		2134.66	(7/2$^+$,9/2$^+$)
1728.7 2	0.15 2	4105.37	(7/2$^+$,9/2$^+$)	2376.64	(5/2$^+$,7/2$^+$,9/2$^+$)
1729.4 3	0.05 1	4013.64	(7/2$^+$,9/2$^+$)	2283.43	(5/2$^+$)
1730.1 3	0.10 2	3865.45	(9/2$^+$,11/2$^+$)	2134.66	(7/2$^+$,9/2$^+$)
1730.1 2	0.07 1	4125.50	(11/2$^+$)	2395.71	(11/2$^+$)
1734.9 1	0.46 4	3029.21	(9/2$^+$)	1294.65	(9/2$^+$)
1752.0 1	0.24 2	3983.29	(9/2$^+$)	2231.57	(11/2$^+$,13/2$^+$)
1754.9 3	0.045 7	2799.33	(5/2$^+$,7/2$^+$,9/2$^+$)	1043.73	(7/2$^+$)
1760.7 2	0.08 1	4105.37	(7/2$^+$,9/2$^+$)	2344.84	(7/2$^+$,9/2$^+$)
1768.8 2	0.07 1	4264.42	(11/2$^+$)	2496.01	(7/2$^+$,9/2$^+$)
1769.3 3	0.024 4	3712.81		1943.50	(11/2$^+$)
1777.7 3	0.04 1	3954.0	(5/2$^+$,7/2$^+$,9/2$^+$)	2176.25	(9/2$^+$)
1782.3 1	0.87 5	1782.32	(5/2$^+$)	0.0	(5/2$^+$)
1786.5 2	0.06 1	4465.00	(9/2$^+$)	2679.57	(9/2$^+$,11/2$^+$)
1791.9 1	0.53 5	3790.48	(7/2$^+$,9/2$^+$,11/2$^+$)	1998.70	(5/2$^+$,7/2$^+$,9/2$^+$)

$^{97}_{46}Pd_{51}$-17

^{97}Ag ε decay (25.5 s) 1999Hu10,1997Sc30,1982Ku15 (continued)

γ(^{97}Pd) (continued)

E_γ †	I_γ [a]	E_i(level)	J_i^π	E_f	J_f^π
1796.5 *1*	0.69 *6*	3740.02	(11/2$^+$)	1943.50	(11/2$^+$)
1797.9 *2*	0.08 *1*	4142.69	(9/2$^+$,11/2$^+$)	2344.84	(7/2$^+$,9/2$^+$)
1798.5 *2*	0.08 *1*	2842.85		1043.73	(7/2$^+$)
1804.7 *3*	0.044 *7*	3686.60		1881.60	(13/2$^+$)
1807.5 *3*	0.10 *2*	3983.29	(9/2$^+$)	2176.25	(9/2$^+$)
1808.8 *2*	0.20 *2*	2496.01	(7/2$^+$,9/2$^+$)	686.67	(7/2$^+$)
1812.6 *2*	0.041 *9*	4318.62	(7/2$^+$,9/2$^+$)	2506.00	(9/2$^+$)
1816.1 *2*	0.10 *1*	3353.78	(7/2$^+$,9/2$^+$)	1537.69	(7/2$^+$,9/2$^+$)
1819.4 *1*	0.44 *4*	2506.00	(9/2$^+$)	686.67	(7/2$^+$)
1842.2 *1*	0.10 *1*	4465.00	(9/2$^+$)	2622.76	(11/2$^+$,13/2$^+$)
1842.7 *2*	0.052 *8*	3983.29	(9/2$^+$)	2141.14	(13/2$^+$)
1842.7 *1*	0.35 *3*	4019.14	(9/2$^+$,11/2$^+$)	2176.25	(9/2$^+$)
1848.5 *1*	0.07 *1*	3983.29	(9/2$^+$)	2134.66	(7/2$^+$,9/2$^+$)
1849.5 *2*	0.027 *7*	2893.24		1043.73	(7/2$^+$)
1858.3 *2*	0.029 *9*	3740.02	(11/2$^+$)	1881.60	(13/2$^+$)
1864.4 *4*	0.014 *5*	4040.22	(7/2$^+$,9/2$^+$)	2176.25	(9/2$^+$)
1865.4 *3*	0.053 *9*	3983.29	(9/2$^+$)	2116.98	(7/2$^+$,9/2$^+$)
1865.7 *2*	0.07 *1*	4040.22	(7/2$^+$,9/2$^+$)	2174.78	(5/2$^+$,7/2$^+$,9/2$^+$)
1873.4 *4*	0.04 *1*	4219.16	(7/2$^+$,9/2$^+$)	2344.84	(7/2$^+$,9/2$^+$)
1878.1 *1*	0.13 *2*	4019.14	(9/2$^+$,11/2$^+$)	2141.14	(13/2$^+$)
1880.0[&] *5*	0.07 *2*	4013.64	(7/2$^+$,9/2$^+$)	2134.66	(7/2$^+$,9/2$^+$)
1881.6 *1*	0.16 *2*	4465.00	(9/2$^+$)	2583.31	
1885.0 *3*	0.13 *2*	4019.14	(9/2$^+$,11/2$^+$)	2134.66	(7/2$^+$,9/2$^+$)
1885.2 *4*	0.016 *7*	3827.82	(7/2$^+$,9/2$^+$,11/2$^+$)	1943.50	(11/2$^+$)
1890.2 *6*	0.04 *1*	4265.96	(9/2$^+$)	2375.77	(9/2$^+$,11/2$^+$,13/2$^+$)
1891.6 *1*	0.14 *1*	4123.28	(9/2$^+$)	2231.57	(11/2$^+$,13/2$^+$)
1897.8 *3*	0.018 *3*	3192.46	(9/2$^+$,11/2$^+$)	1294.65	(9/2$^+$)
1909.4 *2*	0.19 *2*	4285.72	(7/2$^+$,9/2$^+$)	2376.64	(5/2$^+$,7/2$^+$,9/2$^+$)
1911.2 *2*	0.079 *9*	4142.69	(9/2$^+$,11/2$^+$)	2231.57	(11/2$^+$,13/2$^+$)
1917.8 *2*	0.022 *4*	2961.54	(9/2$^+$,11/2$^+$,13/2$^+$)	1043.73	(7/2$^+$)
1918.2 *5*	0.05 *2*	4053.06	(7/2$^+$,9/2$^+$,11/2$^+$)	2134.66	(7/2$^+$,9/2$^+$)
1918.3 *3*	0.21 *3*	2604.95		686.67	(7/2$^+$)
1922.7 *2*	0.09 *1*	4318.62	(7/2$^+$,9/2$^+$)	2395.71	(11/2$^+$)
1929.4 *4*	0.034 *7*	4105.37	(7/2$^+$,9/2$^+$)	2176.25	(9/2$^+$)
1935.7 *2*	0.025 *8*	4219.16	(7/2$^+$,9/2$^+$)	2283.43	(5/2$^+$)
1942.0 *3*	0.044 *9*	4318.62	(7/2$^+$,9/2$^+$)	2376.64	(5/2$^+$,7/2$^+$,9/2$^+$)
1957.8 *3*	0.041 *9*	4465.00	(9/2$^+$)	2506.00	(9/2$^+$)
1965.2 *2*	0.22 *2*	3503.03	(7/2$^+$,9/2$^+$,11/2$^+$)	1537.69	(7/2$^+$,9/2$^+$)
1965.9 *2*	0.10 *2*	4142.69	(9/2$^+$,11/2$^+$)	2176.25	(9/2$^+$)
1968.6 *2*	0.07 *2*	4465.00	(9/2$^+$)	2496.01	(7/2$^+$,9/2$^+$)
1971.3 *3*	0.12 *2*	4105.37	(7/2$^+$,9/2$^+$)	2134.66	(7/2$^+$,9/2$^+$)
1973.5 *2*	0.07 *1*	4318.62	(7/2$^+$,9/2$^+$)	2344.84	(7/2$^+$,9/2$^+$)
1982.1 *2*	0.032 *4*	4123.28	(9/2$^+$)	2141.14	(13/2$^+$)

$^{97}_{46}Pd_{51}$-18

^{97}Ag ε decay (25.5 s) 1999Hu10,1997Sc30,1982Ku15 (continued)

γ(^{97}Pd) (continued)

E_γ †	I_γ a	E_i(level)	J_i^π	E_f	J_f^π
1984.0 *4*	0.029 *6*	3983.29	(9/2$^+$)	1998.70	(5/2$^+$,7/2$^+$,9/2$^+$)
1991.7 *2*	0.25 *3*	4125.50	(11/2$^+$)	2134.66	(7/2$^+$,9/2$^+$)
1992.9 *1*	0.46 *6*	2679.57	(9/2$^+$,11/2$^+$)	686.67	(7/2$^+$)
1998.7 *1*	0.15 *1*	1998.70	(5/2$^+$,7/2$^+$,9/2$^+$)	0.0	(5/2$^+$)
2000.7 *3*	0.04 *1*	4285.72	(7/2$^+$,9/2$^+$)	2283.43	(5/2$^+$)
2001.6 *2*	0.064 *9*	4142.69	(9/2$^+$,11/2$^+$)	2141.14	(13/2$^+$)
2003.0 *3*	0.17 *2*	2689.95		686.67	(7/2$^+$)
2008.1 *5*	0.04 *1*	4142.69	(9/2$^+$,11/2$^+$)	2134.66	(7/2$^+$,9/2$^+$)
2008.3 *2*	0.13 *2*	3790.48	(7/2$^+$,9/2$^+$,11/2$^+$)	1782.32	(5/2$^+$)
2032.2 *2*	0.056 *6*	4264.42	(11/2$^+$)	2231.57	(11/2$^+$,13/2$^+$)
2039.8 *1*	0.26 *3*	3983.29	(9/2$^+$)	1943.50	(11/2$^+$)
2041.4 *1*	0.46 *4*	4040.22	(7/2$^+$,9/2$^+$)	1998.70	(5/2$^+$,7/2$^+$,9/2$^+$)
2042.2 *4*	0.02 *1*	4176.9		2134.66	(7/2$^+$,9/2$^+$)
2044.1 *2*	0.19 *2*	4219.16	(7/2$^+$,9/2$^+$)	2176.25	(9/2$^+$)
2045.1 *3*	0.028 *8*	4219.16	(7/2$^+$,9/2$^+$)	2174.78	(5/2$^+$,7/2$^+$,9/2$^+$)
2057.7 *2*	0.09 *1*	3101.58	(7/2$^+$,9/2$^+$)	1043.73	(7/2$^+$)
2059.1 *3*	0.09 *2*	3353.78	(7/2$^+$,9/2$^+$)	1294.65	(9/2$^+$)
2059.1 *3*	0.049 *9*	4193.82	(7/2$^+$,9/2$^+$,11/2$^+$)	2134.66	(7/2$^+$,9/2$^+$)
2076.2 *2*	0.07 *1*	4019.14	(9/2$^+$,11/2$^+$)	1943.50	(11/2$^+$)
2084.4 *2*	0.36 *4*	4219.16	(7/2$^+$,9/2$^+$)	2134.66	(7/2$^+$,9/2$^+$)
2086.6 *1*	0.057 *6*	4318.62	(7/2$^+$,9/2$^+$)	2231.57	(11/2$^+$,13/2$^+$)
2089.5 *3*	0.041 *7*	4265.96	(9/2$^+$)	2176.25	(9/2$^+$)
2091.4 *5*	0.016 *6*	4265.96	(9/2$^+$)	2174.78	(5/2$^+$,7/2$^+$,9/2$^+$)
2104.0 *2*	0.044 *6*	3147.76		1043.73	(7/2$^+$)
2109.4 *4*	0.05 *1*	4285.72	(7/2$^+$,9/2$^+$)	2176.25	(9/2$^+$)
2110.8 *3*	0.05 *1*	4285.72	(7/2$^+$,9/2$^+$)	2174.78	(5/2$^+$,7/2$^+$,9/2$^+$)
2112.4 *2*	0.05 *1*	2799.33	(5/2$^+$,7/2$^+$,9/2$^+$)	686.67	(7/2$^+$)
2116.9 *1*	0.22 *2*	2116.98	(7/2$^+$,9/2$^+$)	0.0	(5/2$^+$)
2120.0 *3*	0.07 *1*	4465.00	(9/2$^+$)	2344.84	(7/2$^+$,9/2$^+$)
2123.1 *3*	0.037 *7*	4264.42	(11/2$^+$)	2141.14	(13/2$^+$)
2132.1 *3*	0.09 *2*	4265.96	(9/2$^+$)	2134.66	(7/2$^+$,9/2$^+$)
2134.7 *1*	0.67 *5*	2134.66	(7/2$^+$,9/2$^+$)	0.0	(5/2$^+$)
2137.2 *2*	0.043 *7*	4019.14	(9/2$^+$,11/2$^+$)	1881.60	(13/2$^+$)
2142.5 *2*	0.10 *2*	4318.62	(7/2$^+$,9/2$^+$)	2176.25	(9/2$^+$)
2143.2 *3*	0.028 *7*	4318.62	(7/2$^+$,9/2$^+$)	2174.78	(5/2$^+$,7/2$^+$,9/2$^+$)
2151.4 *2*	0.19 *3*	4285.72	(7/2$^+$,9/2$^+$)	2134.66	(7/2$^+$,9/2$^+$)
2156.0 *2*	0.26 *3*	2842.85		686.67	(7/2$^+$)
2175.0 *1*	0.58 *4*	2174.78	(5/2$^+$,7/2$^+$,9/2$^+$)	0.0	(5/2$^+$)
2195.4 *1*	0.39 *4*	2881.84	(9/2$^+$,11/2$^+$)	686.67	(7/2$^+$)
2199.4 *4*	0.020 *5*	4374.77	(7/2$^+$,9/2$^+$)	2174.78	(5/2$^+$,7/2$^+$,9/2$^+$)
2200.9 *3*	0.04 *1*	3983.29	(9/2$^+$)	1782.32	(5/2$^+$)
2201.8 *5*	0.06 *2*	3496.07	(7/2$^+$,9/2$^+$)	1294.65	(9/2$^+$)
2202.9 *3*	0.14 *2*	2890.03	(11/2$^+$)	686.67	(7/2$^+$)

$^{97}_{46}Pd_{51}$-19

$\gamma(^{97}$Pd) (continued)

E_γ[†]	I_γ[a]	E_i(level)	J^π_i	E_f	J^π_f
2203.7 5	0.04 1	3740.02	(11/2+)	1537.69	(7/2+,9/2+)
2208.3 2	0.053 7	3503.03	(7/2+,9/2+,11/2+)	1294.65	(9/2+)
2219.7 2	0.07 1	4219.16	(7/2+,9/2+)	1998.70	(5/2+,7/2+,9/2+)
2219.7 7	0.020 6	4354.54	(7/2+,9/2+,11/2+)	2134.66	(7/2+,9/2+)
2233.8 2	0.053 8	4465.00	(9/2+)	2231.57	(11/2+,13/2+)
2240.3 2	0.10 2	4374.77	(7/2+,9/2+)	2134.66	(7/2+,9/2+)
2243.6 5	0.013 3	4125.50	(11/2+)	1881.60	(13/2+)
2252.2 3	0.029 9	3790.48	(7/2+,9/2+,11/2+)	1537.69	(7/2+,9/2+)
2258.0 2	0.09 2	4040.22	(7/2+,9/2+)	1782.32	(5/2+)
2260.7 4	0.029 8	4435.85	(7/2+,9/2+,11/2+)	2174.78	(5/2+,7/2+,9/2+)
2262.6 4	0.07 2	3558.44	(9/2+,11/2+)	1294.65	(9/2+)
2282.6 2	0.03 1	3577.14	(9/2+,11/2+)	1294.65	(9/2+)
2283.2 1	0.24 2	2283.43	(5/2+)	0.0	(5/2+)
2287.1 3	0.12 2	4285.72	(7/2+,9/2+)	1998.70	(5/2+,7/2+,9/2+)
2288.6 2	0.13 2	4465.00	(9/2+)	2176.25	(9/2+)
2289.7 2	0.09 1	3827.82	(7/2+,9/2+,11/2+)	1537.69	(7/2+,9/2+)
2290.4 3	0.027 8	4465.00	(9/2+)	2174.78	(5/2+,7/2+,9/2+)
2308.3 3	0.030 4	3351.14	(11/2+)	1043.73	(7/2+)
2321.0 2	0.08 1	4264.42	(11/2+)	1943.50	(11/2+)
2328.8 2	0.05 1	4040.22	(7/2+,9/2+)	1712.03	(5/2+)
2330.2 2	0.029 5	3373.55	(9/2+)	1043.73	(7/2+)
2330.3 1	0.05 1	4465.00	(9/2+)	2134.66	(7/2+,9/2+)
2342.8 3	0.15 2	3029.21	(9/2+)	686.67	(7/2+)
2344.8 1	0.13 4	2344.84	(7/2+,9/2+)	0.0	(5/2+)
2348.0 2	0.10 2	4465.00	(9/2+)	2116.98	(7/2+,9/2+)
2376.6 1	1.27 7	2376.64	(5/2+,7/2+,9/2+)	0.0	(5/2+)
2387.1 2	0.038 9	4385.83		1998.70	(5/2+,7/2+,9/2+)
2410.2 6	0.014 7	4354.54	(7/2+,9/2+,11/2+)	1943.50	(11/2+)
2412.1 5	0.021 6	4193.82	(7/2+,9/2+,11/2+)	1782.32	(5/2+)
2414.2 3	0.15 2	3101.58	(7/2+,9/2+)	686.67	(7/2+)
2431.6 12	0.03 1	3118.3		686.67	(7/2+)
2436.5 3	0.039 9	4219.16	(7/2+,9/2+)	1782.32	(5/2+)
2445.0 5	0.029 9	3983.29	(9/2+)	1537.69	(7/2+,9/2+)
2445.3 2	0.15 2	3740.02	(11/2+)	1294.65	(9/2+)
2468.2 2	0.04 1	3763.28	(7/2+,9/2+)	1294.65	(9/2+)
2480.3 4	0.05 1	4019.14	(9/2+,11/2+)	1537.69	(7/2+,9/2+)
2484.1 3	0.015 5	4265.96	(9/2+)	1782.32	(5/2+)
2495.8 1	0.53 5	3790.48	(7/2+,9/2+,11/2+)	1294.65	(9/2+)
2495.9 4	0.25 7	2496.01	(7/2+,9/2+)	0.0	(5/2+)
2502.6 2	0.09 1	4040.22	(7/2+,9/2+)	1537.69	(7/2+,9/2+)
2505.9 1	0.20 1	2506.00	(9/2+)	0.0	(5/2+)
2505.9 3	0.10 3	3192.46	(9/2+,11/2+)	686.67	(7/2+)
2521.1 4	0.029 7	4465.00	(9/2+)	1943.50	(11/2+)

From ENSDF

$^{97}_{46}$Pd$_{51}$-20

^{97}Ag ε decay (25.5 s) 1999Hu10,1997Sc30,1982Ku15 (continued)

γ(^{97}Pd) (continued)

E_γ †	I_γ a	E_i(level)	J_i^π	E_f	J_f^π
2530.2 3	0.018 7	4068.54		1537.69	(7/2+,9/2+)
2535.4 3	0.036 7	4318.62	(7/2+,9/2+)	1782.32	(5/2+)
2553.2 4	0.03 1	4265.96	(9/2+)	1712.03	(5/2+)
2568.5 3	0.05 1	4105.37	(7/2+,9/2+)	1537.69	(7/2+,9/2+)
2573.4 2	0.033 8	4285.72	(7/2+,9/2+)	1712.03	(5/2+)
2592.7 5	0.022 5	4374.77	(7/2+,9/2+)	1782.32	(5/2+)
2609.2 1	0.62 5	3295.73	(11/2+)	686.67	(7/2+)
2630.9 3	0.09 2	3925.59	(9/2+)	1294.65	(9/2+)
2631.8 4	0.036 5	3406.8		774.98	(1/2+)
2643.2 1	0.51 4	3329.83		686.67	(7/2+)
2664.0 2	0.6 1	3351.14	(11/2+)	686.67	(7/2+)
2666.8 1	1.3 1	3353.78	(7/2+,9/2+)	686.67	(7/2+)
2682.9 4	0.05 1	4219.16	(7/2+,9/2+)	1537.69	(7/2+,9/2+)
2688.5 2	0.27 3	3983.29	(9/2+)	1294.65	(9/2+)
2690.5 4	0.023 7	5086.3	(7/2+,9/2+,11/2+)	2395.71	(11/2+)
2696.1 1	0.67 5	3382.83	(7/2+,9/2+)	686.67	(7/2+)
2723.9 4	0.05 1	4019.14	(9/2+,11/2+)	1294.65	(9/2+)
2726.2 3	0.016 3	4264.42	(11/2+)	1537.69	(7/2+,9/2+)
2731.8 8	0.030 7	3775.6		1043.73	(7/2+)
2745.5 3	0.06 1	4040.22	(7/2+,9/2+)	1294.65	(9/2+)
2746.7 1	0.39 4	3790.48	(7/2+,9/2+,11/2+)	1043.73	(7/2+)
2747.5 2	0.12 1	3434.21		686.67	(7/2+)
2758.5 9	0.045 9	4053.06	(7/2+,9/2+,11/2+)	1294.65	(9/2+)
2780.5 2	0.12 2	4318.62	(7/2+,9/2+)	1537.69	(7/2+,9/2+)
2786.3 1	1.3 1	3473.15	(7/2+,9/2+,11/2+)	686.67	(7/2+)
2799.4 2	0.33 2	2799.33	(5/2+,7/2+,9/2+)	0.0	(5/2+)
2801.5 3	0.018 6	4339.2		1537.69	(7/2+,9/2+)
2809.4 4	0.12 1	3496.07	(7/2+,9/2+)	686.67	(7/2+)
2810.5 3	0.11 2	4105.37	(7/2+,9/2+)	1294.65	(9/2+)
2816.4 2	0.09 1	3503.03	(7/2+,9/2+,11/2+)	686.67	(7/2+)
2817.1 4	0.008 4	4354.54	(7/2+,9/2+,11/2+)	1537.69	(7/2+,9/2+)
2829.9 3	0.09 1	4125.50	(11/2+)	1294.65	(9/2+)
2836.2 4	0.016 5	4618.4		1782.32	(5/2+)
2836.6 3	0.048 9	4374.77	(7/2+,9/2+)	1537.69	(7/2+,9/2+)
2862.0 1	0.050 9	3548.72		686.67	(7/2+)
2881.8 5	0.023 7	3925.59	(9/2+)	1043.73	(7/2+)
2890.5 2	0.31 4	3577.14	(9/2+,11/2+)	686.67	(7/2+)
2891.6 5	0.015 4	4430.52	(7/2+,9/2+,11/2+)	1537.69	(7/2+,9/2+)
2924.2 5	0.035 8	4219.16	(7/2+,9/2+)	1294.65	(9/2+)
2939.7 3	0.06 2	3626.32	(7/2+,9/2+,11/2+)	686.67	(7/2+)
2970.5 4	0.05 1	4265.96	(9/2+)	1294.65	(9/2+)
2991.1 3	0.11 2	4285.72	(7/2+,9/2+)	1294.65	(9/2+)
3018.1 2	0.047 7	3704.82		686.67	(7/2+)
3023.8 1	0.38 4	4318.62	(7/2+,9/2+)	1294.65	(9/2+)
3028.8 3	0.08 1	3029.21	(9/2+)	0.0	(5/2+)
3042.3 4	0.05 1	4337.0		1294.65	(9/2+)
3053.2 1	4.5 3	3740.02	(11/2+)	686.67	(7/2+)
3103.7 1	0.44 4	3790.48	(7/2+,9/2+,11/2+)	686.67	(7/2+)
3134.4 5	0.032 7	4430.52	(7/2+,9/2+,11/2+)	1294.65	(9/2+)
3140.8 2	0.21 3	3827.82	(7/2+,9/2+,11/2+)	686.67	(7/2+)
3155.3 2	0.041 7	3842.03		686.67	(7/2+)
3169.8 1	0.08 1	3856.50		686.67	(7/2+)
3169.9 3	0.07 1	4465.00	(9/2+)	1294.65	(9/2+)
3223.3 5	0.029 6	4265.96	(9/2+)	1043.73	(7/2+)
3238.6 2	0.21 3	3925.59	(9/2+)	686.67	(7/2+)
3241.2 3	0.06 1	4285.72	(7/2+,9/2+)	1043.73	(7/2+)
3280.6 2	0.22 2	3280.27	(5/2+,7/2+,9/2+)	0.0	(5/2+)
3296.6 1	2.9 2	3983.29	(9/2+)	686.67	(7/2+)
3328.0 4	0.09 1	4013.64	(7/2+,9/2+)	686.67	(7/2+)
3353.5 1	0.77 5	3353.78	(7/2+,9/2+)	0.0	(5/2+)
3353.6 1	0.10 2	4040.22	(7/2+,9/2+)	686.67	(7/2+)
3356.5 3	0.009 2	5238.2		1881.60	(13/2+)
3366.3 1	0.055 8	4053.06	(7/2+,9/2+,11/2+)	686.67	(7/2+)
3374.1 2	0.10 1	3373.55	(9/2+)	0.0	(5/2+)
3377.3 5	0.027 6	4915.3	(7/2+,9/2+,11/2+)	1537.69	(7/2+,9/2+)
3382.6 1	1.15 6	3382.83	(7/2+,9/2+)	0.0	(5/2+)
3418.6 1	0.75 6	4105.37	(7/2+,9/2+)	686.67	(7/2+)
3436.5 2	0.12 2	4123.28	(9/2+)	686.67	(7/2+)
3495.7 4	0.11 1	3496.07	(7/2+,9/2+)	0.0	(5/2+)
3507.0 2	0.14 2	4193.82	(7/2+,9/2+,11/2+)	686.67	(7/2+)
3533.1 2	0.15 2	4219.16	(7/2+,9/2+)	686.67	(7/2+)
3579.1 1	0.77 6	4265.96	(9/2+)	686.67	(7/2+)
3598.9 1	1.16 9	4285.72	(7/2+,9/2+)	686.67	(7/2+)
3631.9 2	0.34 3	4318.62	(7/2+,9/2+)	686.67	(7/2+)
3645.2 4	0.035 5	4420.3		774.98	(1/2+)
3667.9 4	0.022 5	4354.54	(7/2+,9/2+,11/2+)	686.67	(7/2+)
3688.1 2	0.019 5	4374.77	(7/2+,9/2+)	686.67	(7/2+)
3747.8 4	0.025 6	5042.5	(7/2+,9/2+,11/2+)	1294.65	(9/2+)
3749.3 3	0.08 1	4435.85	(7/2+,9/2+,11/2+)	686.67	(7/2+)
3763.3 1	0.36 3	3763.28	(7/2+,9/2+)	0.0	(5/2+)
3764.8 3	0.06 1	4451.5	(7/2+,9/2+,11/2+)	686.67	(7/2+)
3778.2 1	0.33 3	4465.00	(9/2+)	686.67	(7/2+)
3814.6 6	0.063 9	3814.7		0.0	(5/2+)
3862.1 6	0.026 9	4548.9		686.67	(7/2+)
3871.7 4	0.025 5	4915.3	(7/2+,9/2+,11/2+)	1043.73	(7/2+)
3926.0 6	0.06 1	3925.59	(9/2+)	0.0	(5/2+)

$^{97}_{46}Pd_{51}$-21

^{97}Ag ε decay (25.5 s) 1999Hu10,1997Sc30,1982Ku15 (continued)

γ(^{97}Pd) (continued)

E_γ †	I_γ [a]	E_i(level)	J_i^π	E_f	J_f^π	E_γ †	I_γ [a]	E_i(level)	J_i^π	E_f	J_f^π
3959.0 *4*	0.034 *7*	4645.8		686.67	(7/2$^+$)	4306.2 *3*	0.040 *9*	4993.0	(7/2$^+$,9/2$^+$,11/2$^+$)	686.67	(7/2$^+$)
4040.5 *2*	0.16 *2*	4040.22	(7/2$^+$,9/2$^+$)	0.0	(5/2$^+$)	4318.2 *5*	0.10 *1*	4318.62	(7/2$^+$,9/2$^+$)	0.0	(5/2$^+$)
4042.7 *7*	0.021 *6*	4729.5		686.67	(7/2$^+$)	4355.5 *10*	0.019 *5*	5042.5	(7/2$^+$,9/2$^+$,11/2$^+$)	686.67	(7/2$^+$)
4105.5 *3*	0.06 *1*	4105.37	(7/2$^+$,9/2$^+$)	0.0	(5/2$^+$)	4464.9 *2*	0.28 *2*	4465.00	(9/2$^+$)	0.0	(5/2$^+$)
4123.5 *9*	0.03 *1*	4123.28	(9/2$^+$)	0.0	(5/2$^+$)	4569.4 *8*	0.035 *7*	5256.2	(7/2$^+$,9/2$^+$,11/2$^+$)	686.67	(7/2$^+$)
4218.2 *7*	0.07 *1*	4219.16	(7/2$^+$,9/2$^+$)	0.0	(5/2$^+$)	4593.5 *7*	0.018 *6*	5280.3	(7/2$^+$,9/2$^+$,11/2$^+$)	686.67	(7/2$^+$)
4265.7 *2*	0.21 *1*	4265.96	(9/2$^+$)	0.0	(5/2$^+$)	4618.2 *4*	0.025 *8*	4618.4		0.0	(5/2$^+$)
4285.6 *1*	0.70 *4*	4285.72	(7/2$^+$,9/2$^+$)	0.0	(5/2$^+$)	4639.6 *7*	0.015 *5*	5326.4	(7/2$^+$,9/2$^+$,11/2$^+$)	686.67	(7/2$^+$)

† For γ's whose energy differ by 3σ or more from calculated value see Adopted Levels, Gammas dataset.
‡ From Adopted Gammas.
# This γ-transition was tentatively assigned to the decay of the ^{97}Ag isomeric state in 1997Sc30.
@ 1997Sc30 misassigned this γ-line to connect the 3291.3 keV and 2141.1 keV levels.
& 1997Sc30 incorrectly placed this transition between the 1881.6 keV state (13/2$^+$) and the ground state (5/2$^+$).
[a] Absolute intensity per 100 decays.
[b] 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.

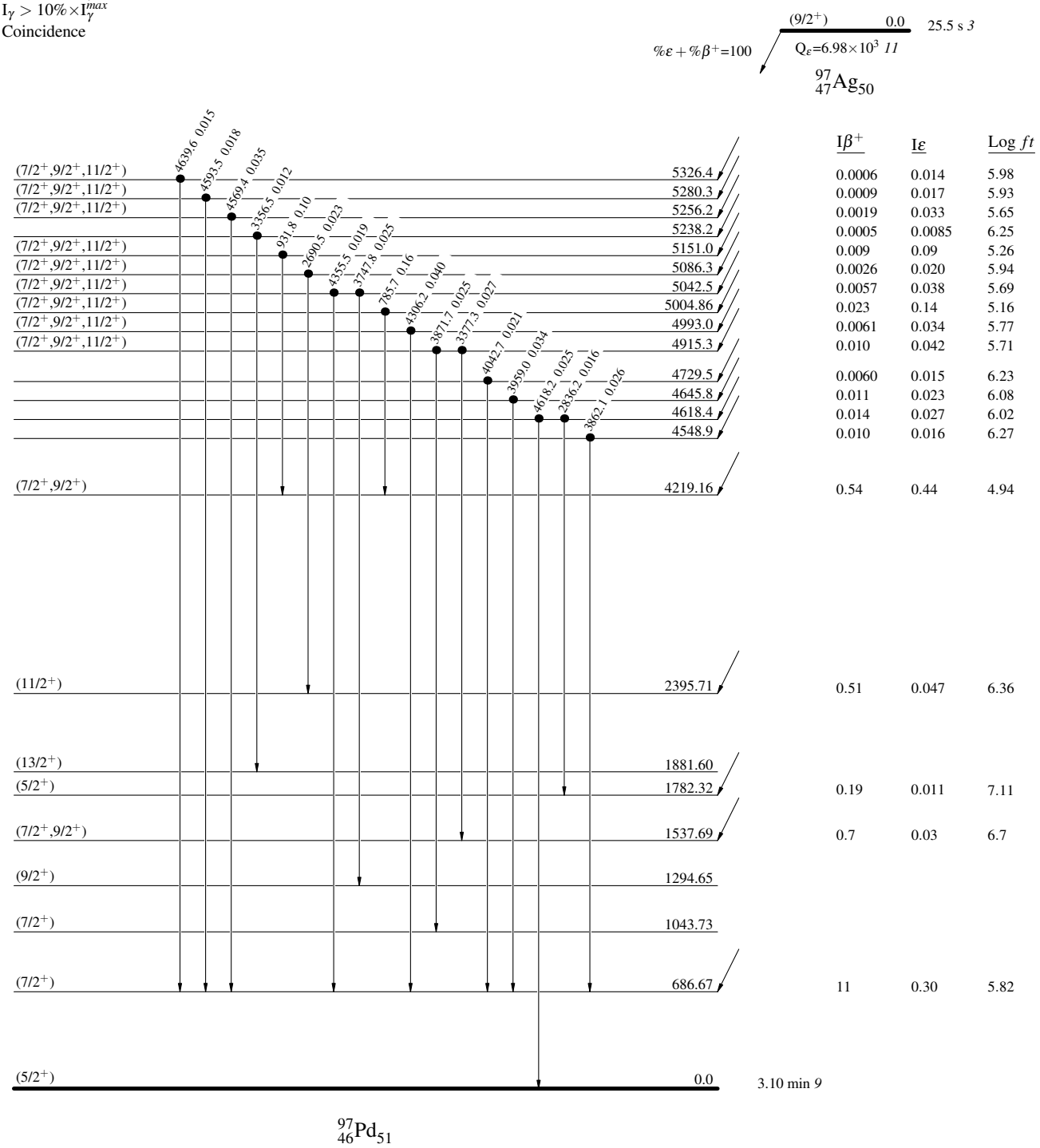
$^{97}_{46}Pd_{51}$-22

^{97}Ag ε decay (25.5 s) 1999Hu10,1997Sc30,1982Ku15

Decay Scheme

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

Legend
- $I_\gamma < 2\% \times I_\gamma^{max}$
- $I_\gamma < 10\% \times I_\gamma^{max}$
- $I_\gamma > 10\% \times I_\gamma^{max}$
- Coincidence

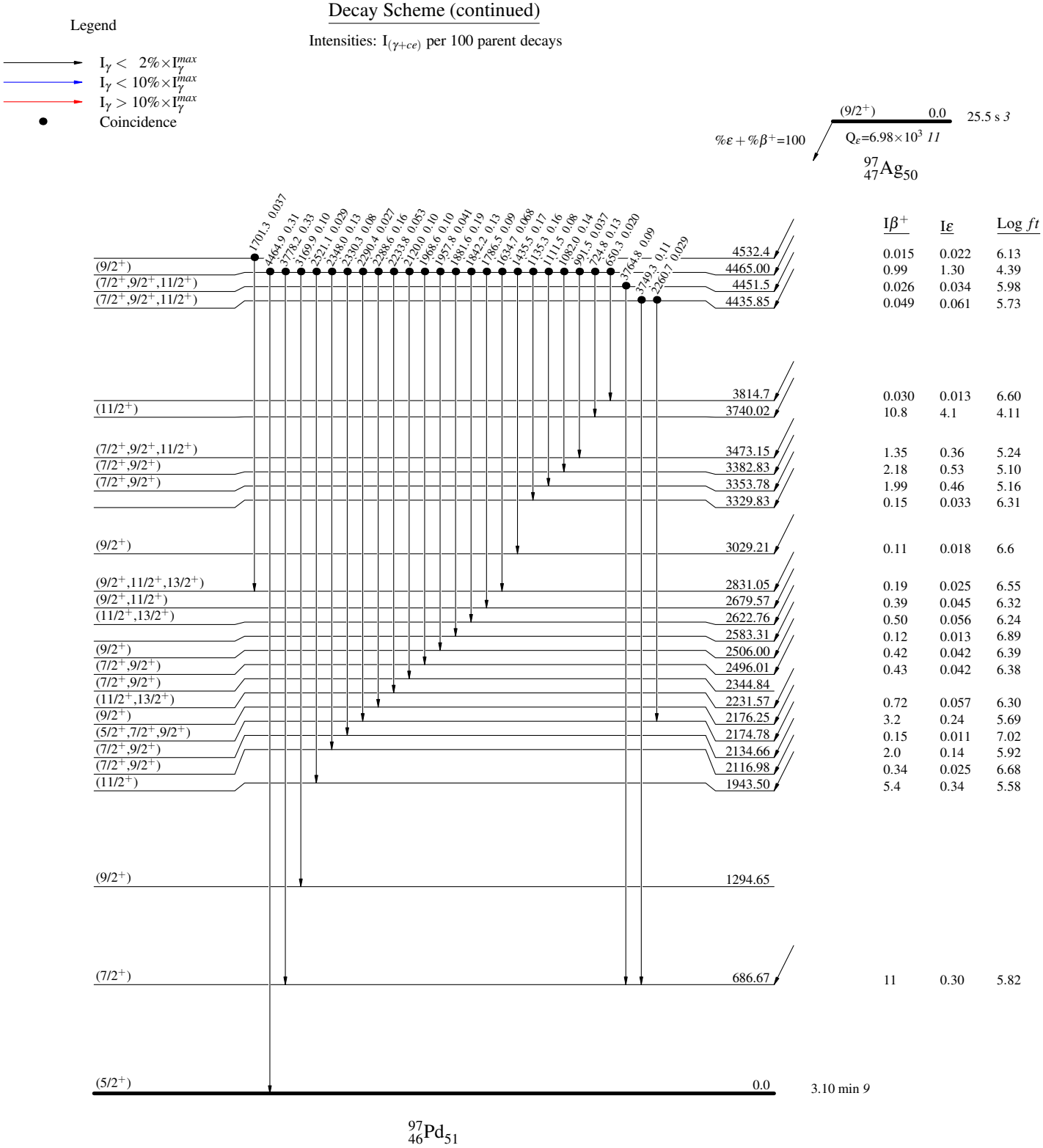


	Iβ+	Iε	Log *ft*
5326.4	0.0006	0.014	5.98
5280.3	0.0009	0.017	5.93
5256.2	0.0019	0.033	5.65
5238.2	0.0005	0.0085	6.25
5151.0	0.009	0.09	5.26
5086.3	0.0026	0.020	5.94
5042.5	0.0057	0.038	5.69
5004.86	0.023	0.14	5.16
4993.0	0.0061	0.034	5.77
4915.3	0.010	0.042	5.71
4729.5	0.0060	0.015	6.23
4645.8	0.011	0.023	6.08
4618.4	0.014	0.027	6.02
4548.9	0.010	0.016	6.27
4219.16	0.54	0.44	4.94
2395.71	0.51	0.047	6.36
1881.60			
1782.32	0.19	0.011	7.11
1537.69	0.7	0.03	6.7
1294.65			
1043.73			
686.67	11	0.30	5.82
0.0			

^{97}Ag ε decay (25.5 s) 1999Hu10,1997Sc30,1982Ku15

Decay Scheme (continued)

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

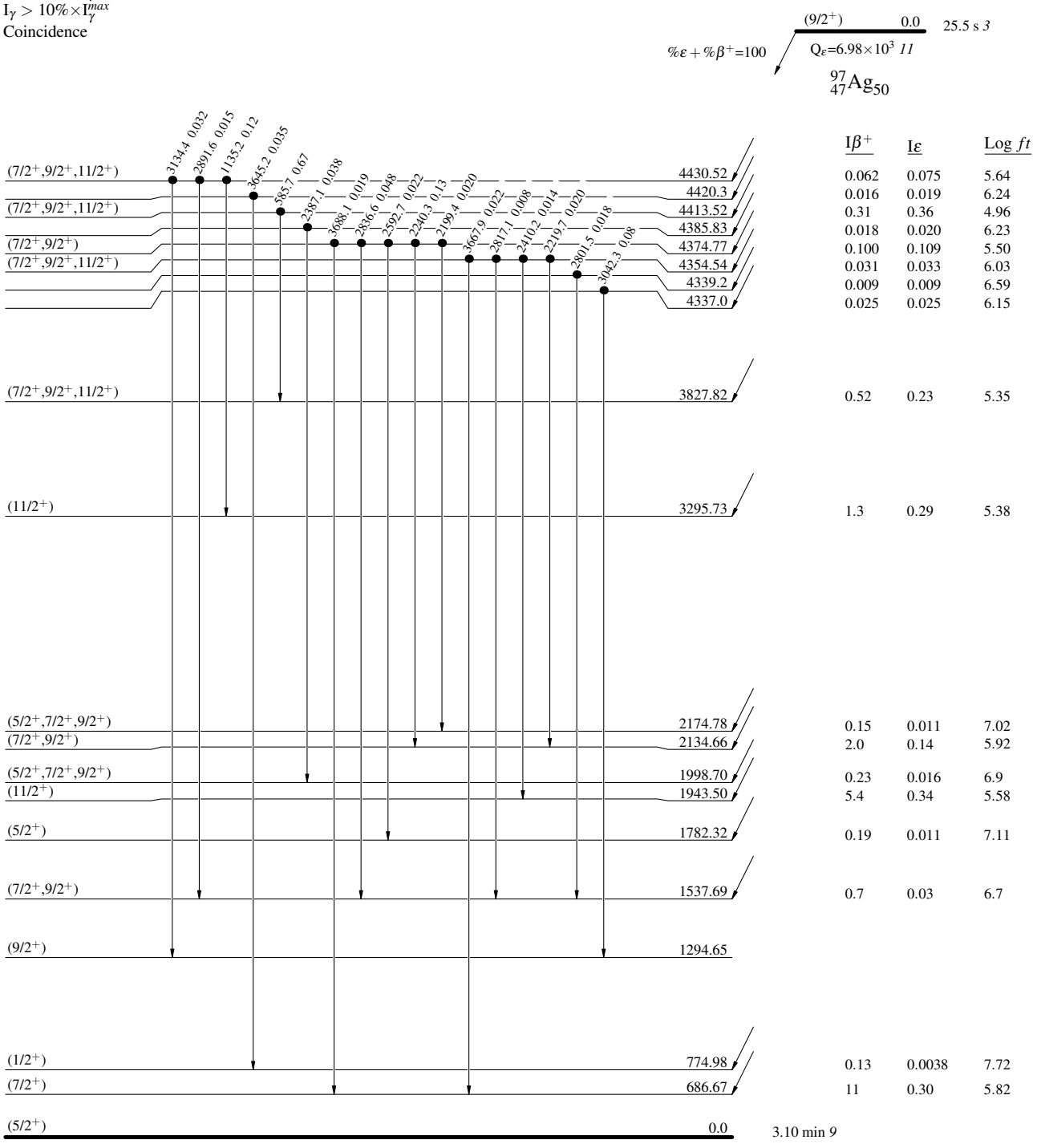


^{97}Ag ε decay (25.5 s) 1999Hu10,1997Sc30,1982Ku15

Decay Scheme (continued)

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

Legend
- $I_\gamma < 2\% \times I_\gamma^{max}$
- $I_\gamma < 10\% \times I_\gamma^{max}$
- $I_\gamma > 10\% \times I_\gamma^{max}$
- Coincidence

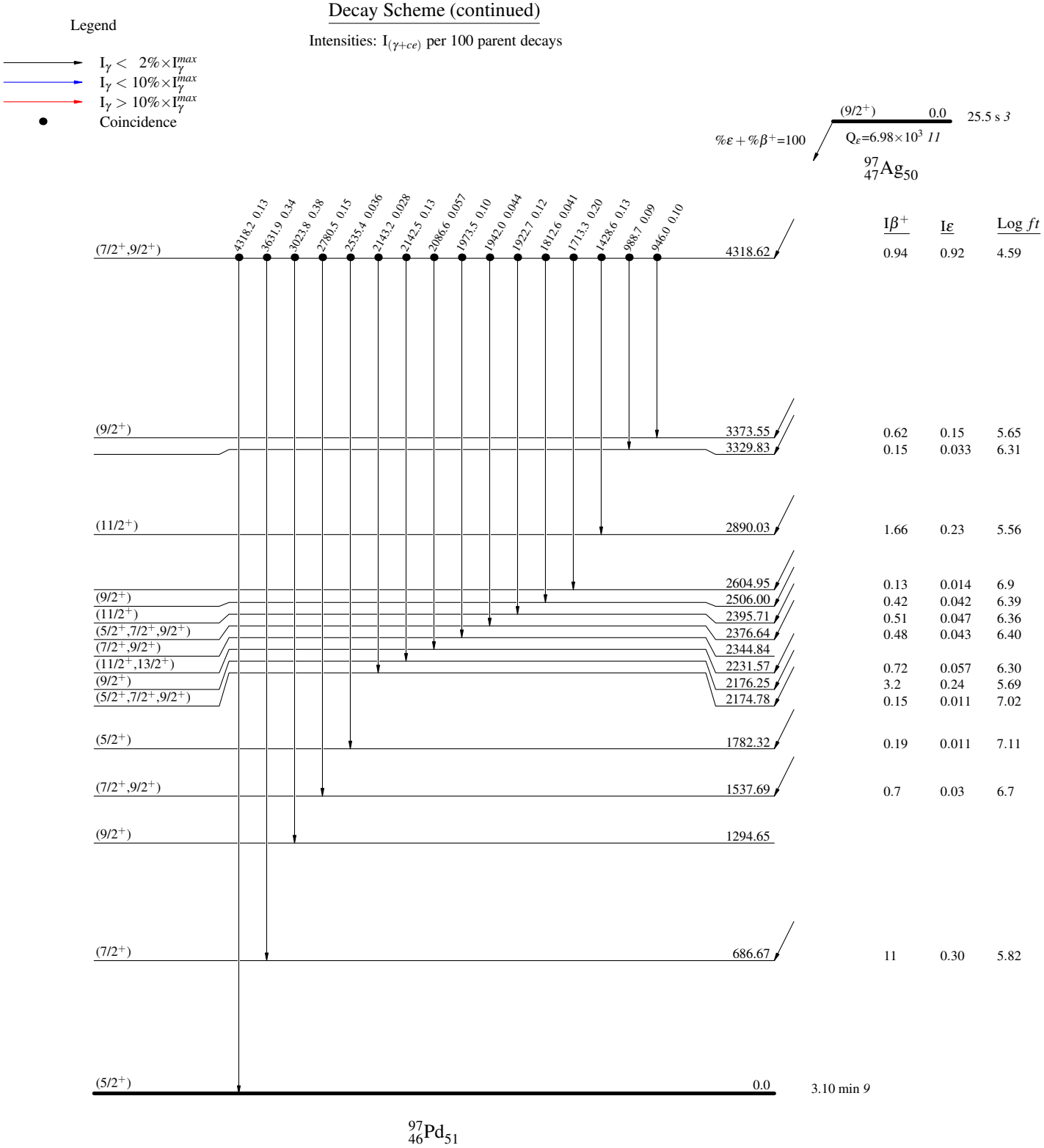


	Iβ+	Iε	Log *ft*
4430.52	0.062	0.075	5.64
4420.3	0.016	0.019	6.24
4413.52	0.31	0.36	4.96
4385.83	0.018	0.020	6.23
4374.77	0.100	0.109	5.50
4354.54	0.031	0.033	6.03
4339.2	0.009	0.009	6.59
4337.0	0.025	0.025	6.15
3827.82	0.52	0.23	5.35
3295.73	1.3	0.29	5.38
2174.78	0.15	0.011	7.02
2134.66	2.0	0.14	5.92
1998.70	0.23	0.016	6.9
1943.50	5.4	0.34	5.58
1782.32	0.19	0.011	7.11
1537.69	0.7	0.03	6.7
774.98	0.13	0.0038	7.72
686.67	11	0.30	5.82

^{97}Ag ε decay (25.5 s) 1999Hu10,1997Sc30,1982Ku15

Decay Scheme (continued)

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



^{97}Ag ε decay (25.5 s) 1999Hu10,1997Sc30,1982Ku15

Decay Scheme (continued)

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

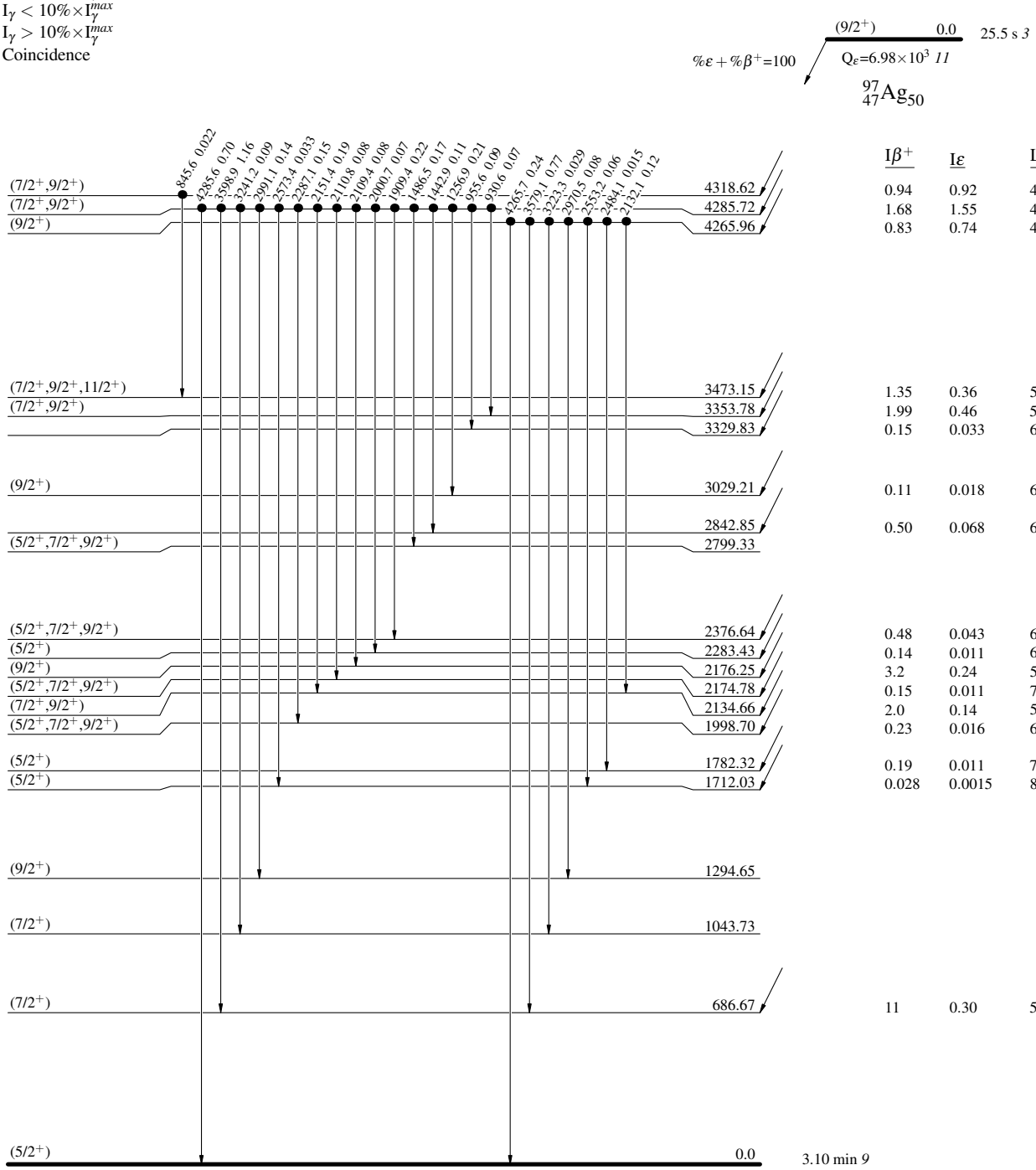
Legend

$I_\gamma < 2\% \times I_\gamma^{max}$

$I_\gamma < 10\% \times I_\gamma^{max}$

$I_\gamma > 10\% \times I_\gamma^{max}$

Coincidence

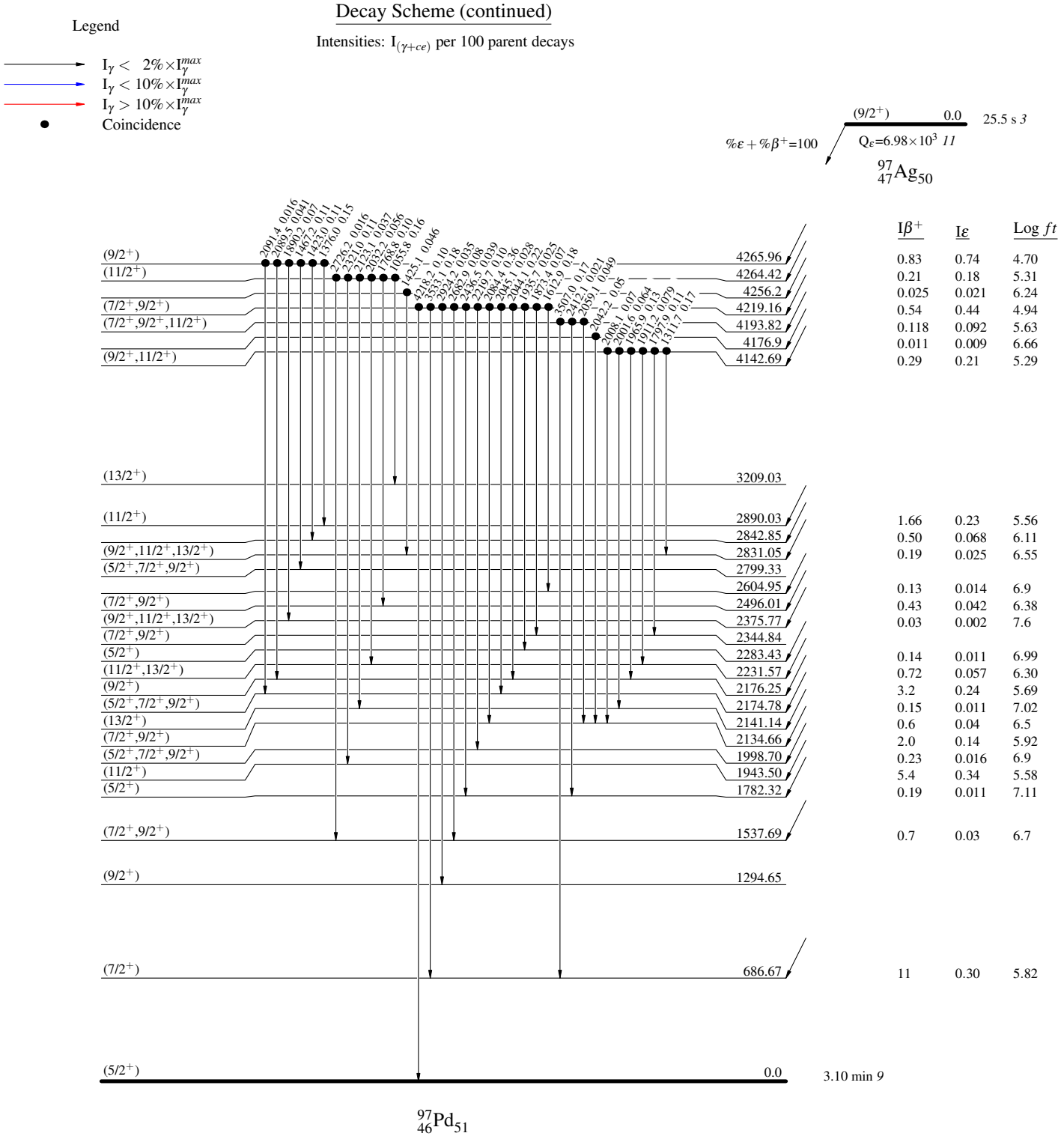


	Iβ+	Iε	Log *ft*
4318.62	0.94	0.92	4.59
4285.72	1.68	1.55	4.37
4265.96	0.83	0.74	4.70
3473.15	1.35	0.36	5.24
3353.78	1.99	0.46	5.16
3329.83	0.15	0.033	6.31
3029.21	0.11	0.018	6.6
2842.85	0.50	0.068	6.11
2376.64	0.48	0.043	6.40
2283.43	0.14	0.011	6.99
2176.25	3.2	0.24	5.69
2174.78	0.15	0.011	7.02
2134.66	2.0	0.14	5.92
1998.70	0.23	0.016	6.9
1782.32	0.19	0.011	7.11
1712.03	0.028	0.0015	8.0
686.67	11	0.30	5.82

^{97}Ag ε decay (25.5 s) 1999Hu10,1997Sc30,1982Ku15

Decay Scheme (continued)

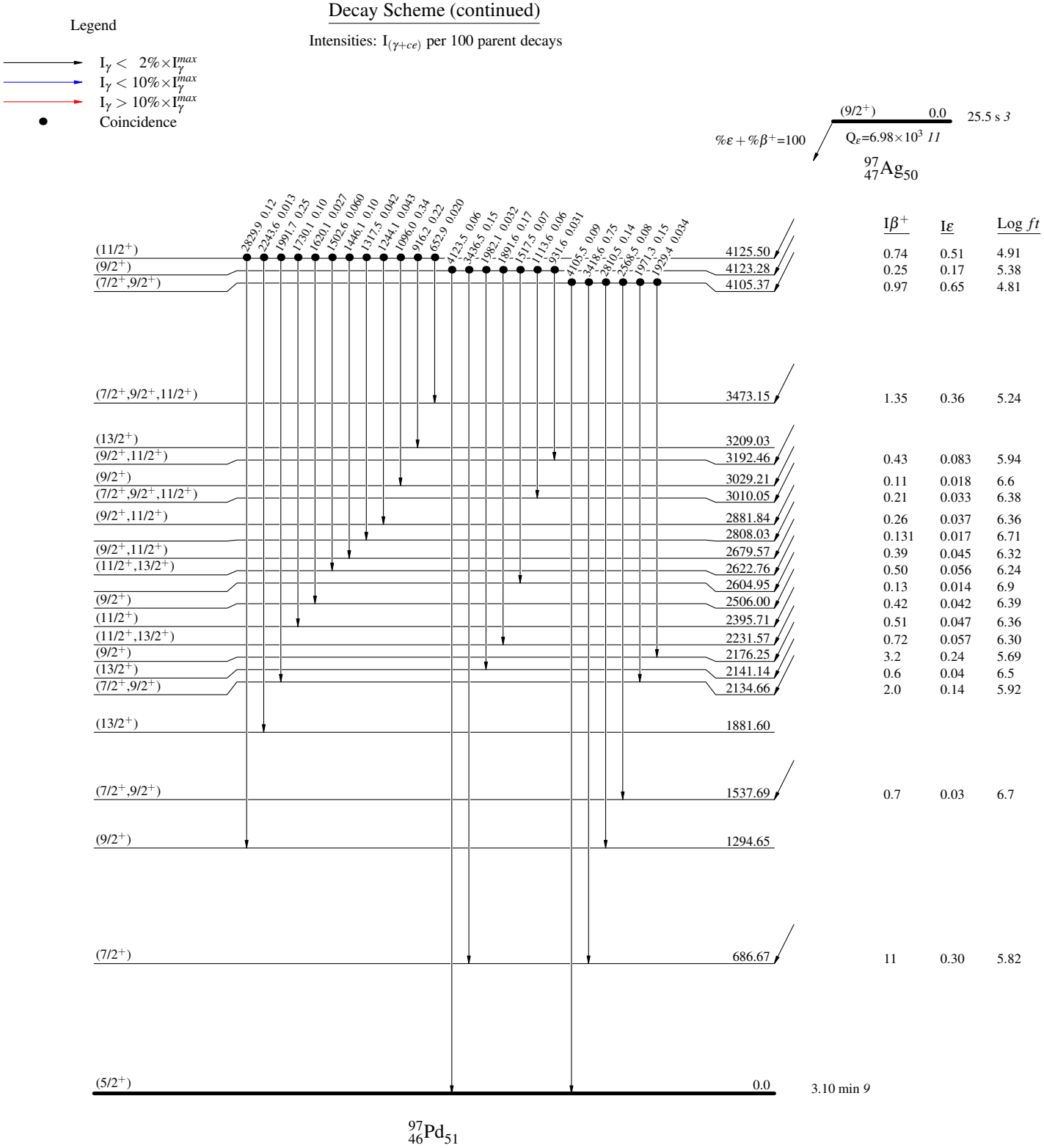
Intensities: $I_{(\gamma+ce)}$ per 100 parent decays



^{97}Ag ε decay (25.5 s) 1999Hu10,1997Sc30,1982Ku15

Decay Scheme (continued)

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

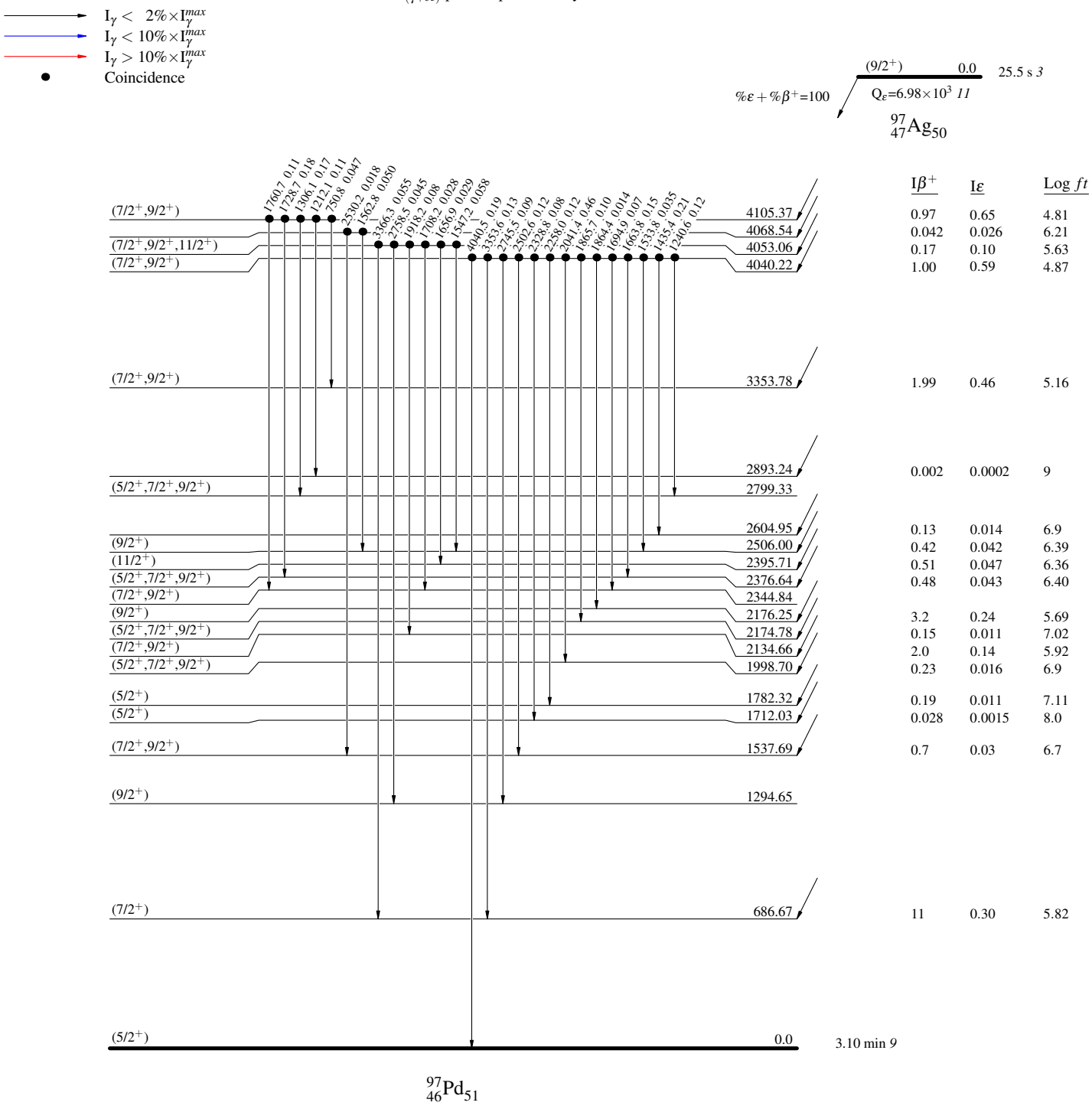


	Iβ+	Iε	Log *ft*
4125.50	0.74	0.51	4.91
4123.28	0.25	0.17	5.38
4105.37	0.97	0.65	4.81
3473.15	1.35	0.36	5.24
3209.03			
3192.46	0.43	0.083	5.94
3029.21	0.11	0.018	6.6
3010.05	0.21	0.033	6.38
2881.84	0.26	0.037	6.36
2808.03	0.131	0.017	6.71
2679.57	0.39	0.045	6.32
2622.76	0.50	0.056	6.24
2604.95	0.13	0.014	6.9
2506.00	0.42	0.042	6.39
2395.71	0.51	0.047	6.36
2231.57	0.72	0.057	6.30
2176.25	3.2	0.24	5.69
2141.14	0.6	0.04	6.5
2134.66	2.0	0.14	5.92
1881.60			
1537.69	0.7	0.03	6.7
1294.65			
686.67	11	0.30	5.82
0.0			

^{97}Ag ε decay (25.5 s) 1999Hu10,1997Sc30,1982Ku15

Decay Scheme (continued)

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

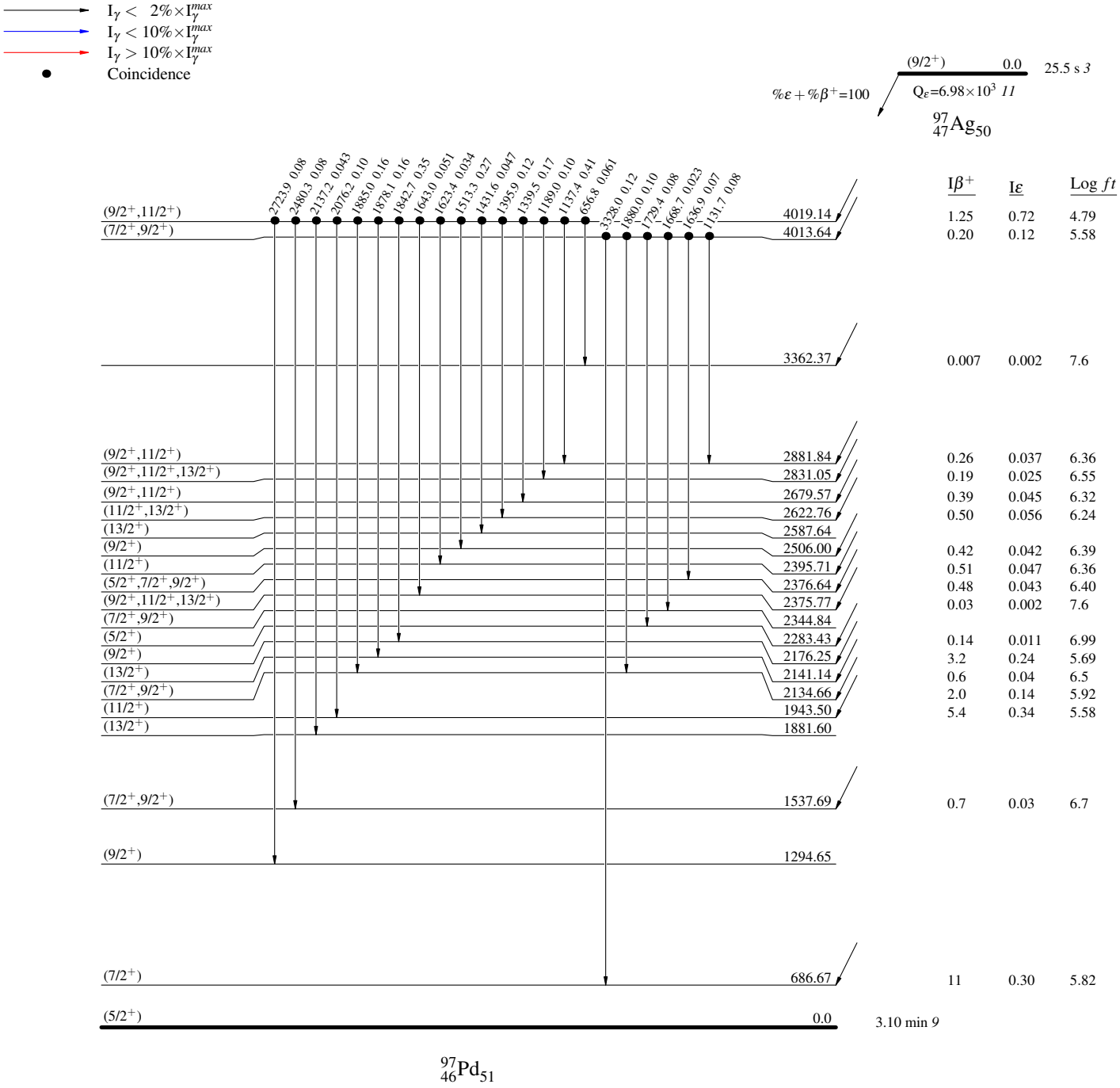


	Iβ+	Iε	Log *ft*
4105.37	0.97	0.65	4.81
4068.54	0.042	0.026	6.21
4053.06	0.17	0.10	5.63
4040.22	1.00	0.59	4.87
3353.78	1.99	0.46	5.16
2893.24	0.002	0.0002	9
2799.33			
2604.95	0.13	0.014	6.9
2506.00	0.42	0.042	6.39
2395.71	0.51	0.047	6.36
2376.64	0.48	0.043	6.40
2344.84			
2176.25	3.2	0.24	5.69
2174.78	0.15	0.011	7.02
2134.66	2.0	0.14	5.92
1998.70	0.23	0.016	6.9
1782.32	0.19	0.011	7.11
1712.03	0.028	0.0015	8.0
1537.69	0.7	0.03	6.7
1294.65			
686.67	11	0.30	5.82
0.0			

^{97}Ag ε decay (25.5 s) 1999Hu10,1997Sc30,1982Ku15

Decay Scheme (continued)

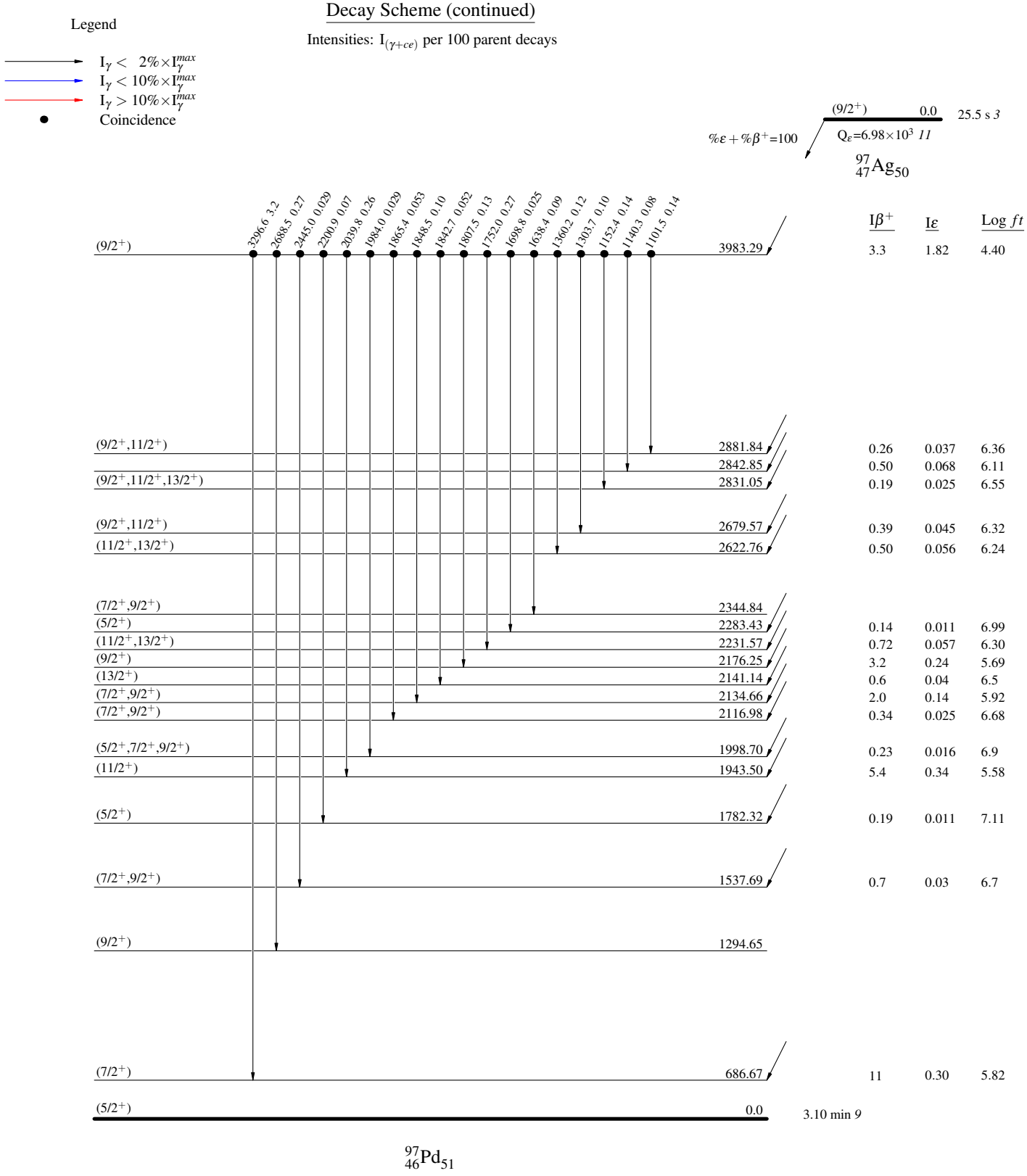
Intensities: $I_{(\gamma+ce)}$ per 100 parent decays



^{97}Ag ε decay (25.5 s) 1999Hu10,1997Sc30,1982Ku15

Decay Scheme (continued)

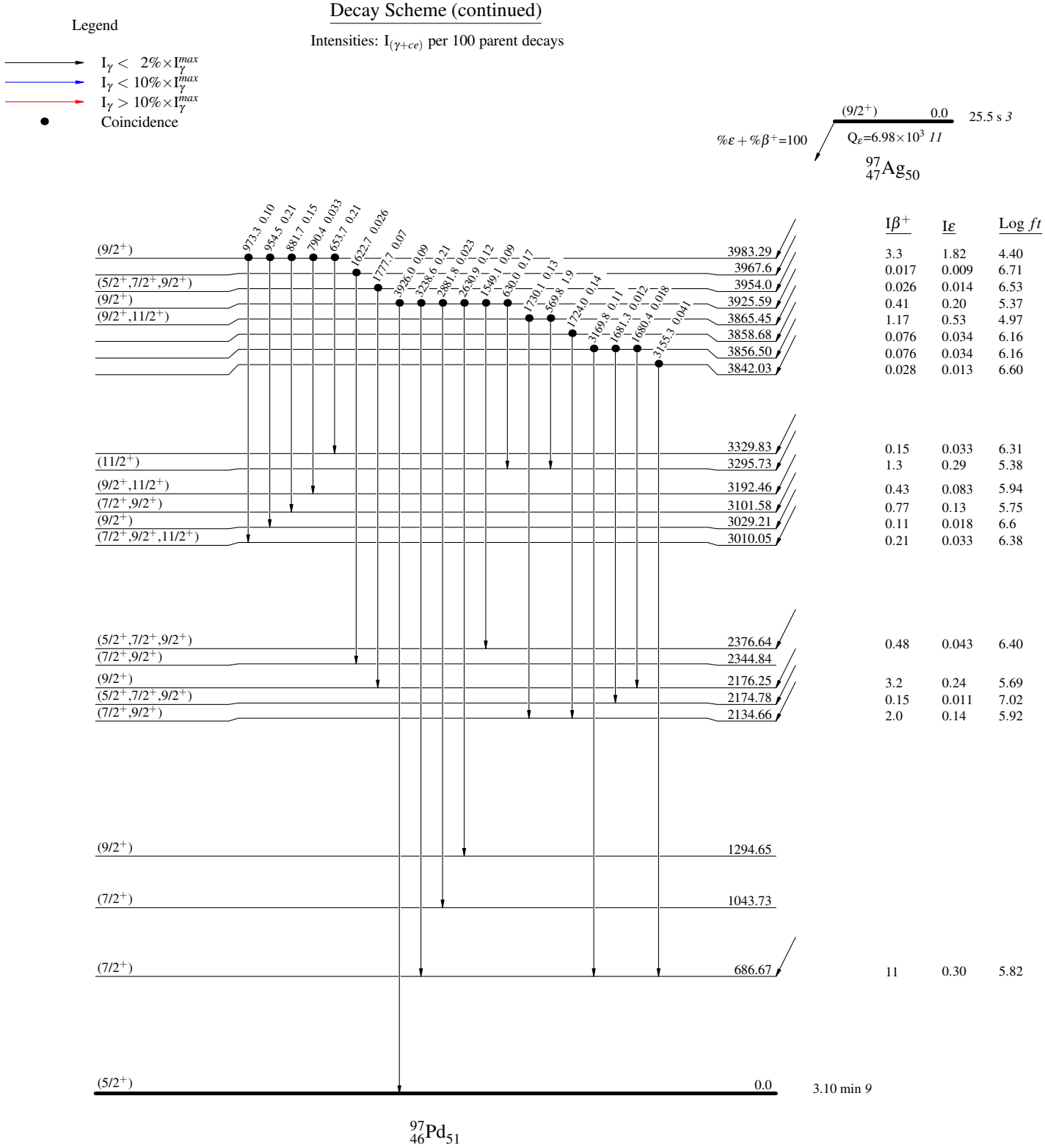
Intensities: $I_{(\gamma+ce)}$ per 100 parent decays



^{97}Ag ε decay (25.5 s) 1999Hu10,1997Sc30,1982Ku15

Decay Scheme (continued)

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

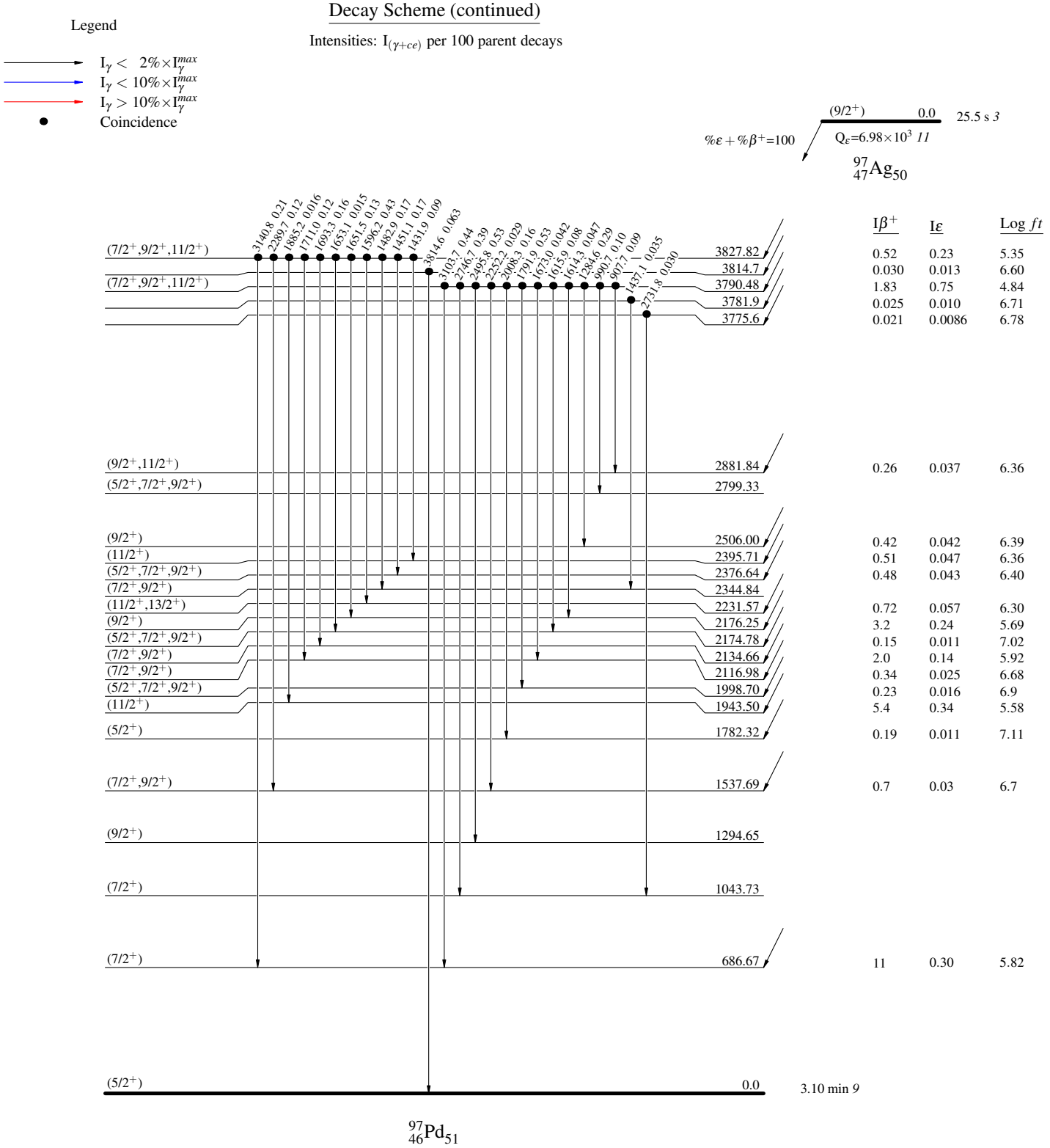


	Iβ+	Iε	Log *ft*
3983.29	3.3	1.82	4.40
3967.6	0.017	0.009	6.71
3954.0	0.026	0.014	6.53
3925.59	0.41	0.20	5.37
3865.45	1.17	0.53	4.97
3858.68	0.076	0.034	6.16
3856.50	0.076	0.034	6.16
3842.03	0.028	0.013	6.60
3329.83	0.15	0.033	6.31
3295.73	1.3	0.29	5.38
3192.46	0.43	0.083	5.94
3101.58	0.77	0.13	5.75
3029.21	0.11	0.018	6.6
3010.05	0.21	0.033	6.38
2376.64	0.48	0.043	6.40
2344.84			
2176.25	3.2	0.24	5.69
2174.78	0.15	0.011	7.02
2134.66	2.0	0.14	5.92
1294.65			
1043.73			
686.67	11	0.30	5.82
0.0			

^{97}Ag ε decay (25.5 s) 1999Hu10,1997Sc30,1982Ku15

Decay Scheme (continued)

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

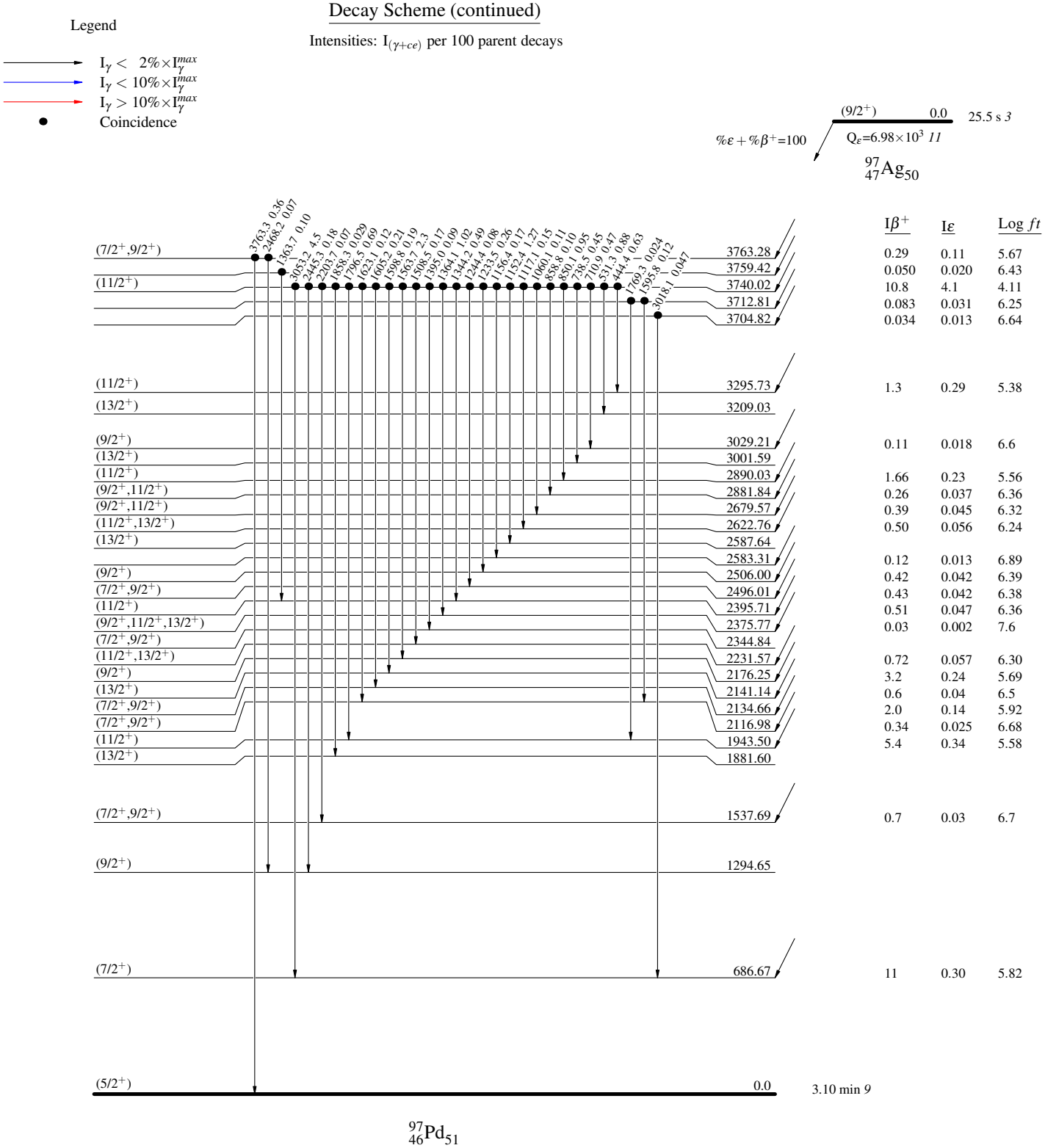


	Iβ+	Iε	Log *ft*
3827.82	0.52	0.23	5.35
3814.7	0.030	0.013	6.60
3790.48	1.83	0.75	4.84
3781.9	0.025	0.010	6.71
3775.6	0.021	0.0086	6.78
2881.84	0.26	0.037	6.36
2506.00	0.42	0.042	6.39
2395.71	0.51	0.047	6.36
2376.64	0.48	0.043	6.40
2231.57	0.72	0.057	6.30
2176.25	3.2	0.24	5.69
2174.78	0.15	0.011	7.02
2134.66	2.0	0.14	5.92
2116.98	0.34	0.025	6.68
1998.70	0.23	0.016	6.9
1943.50	5.4	0.34	5.58
1782.32	0.19	0.011	7.11
1537.69	0.7	0.03	6.7
686.67	11	0.30	5.82

^{97}Ag ε decay (25.5 s) 1999Hu10,1997Sc30,1982Ku15

Decay Scheme (continued)

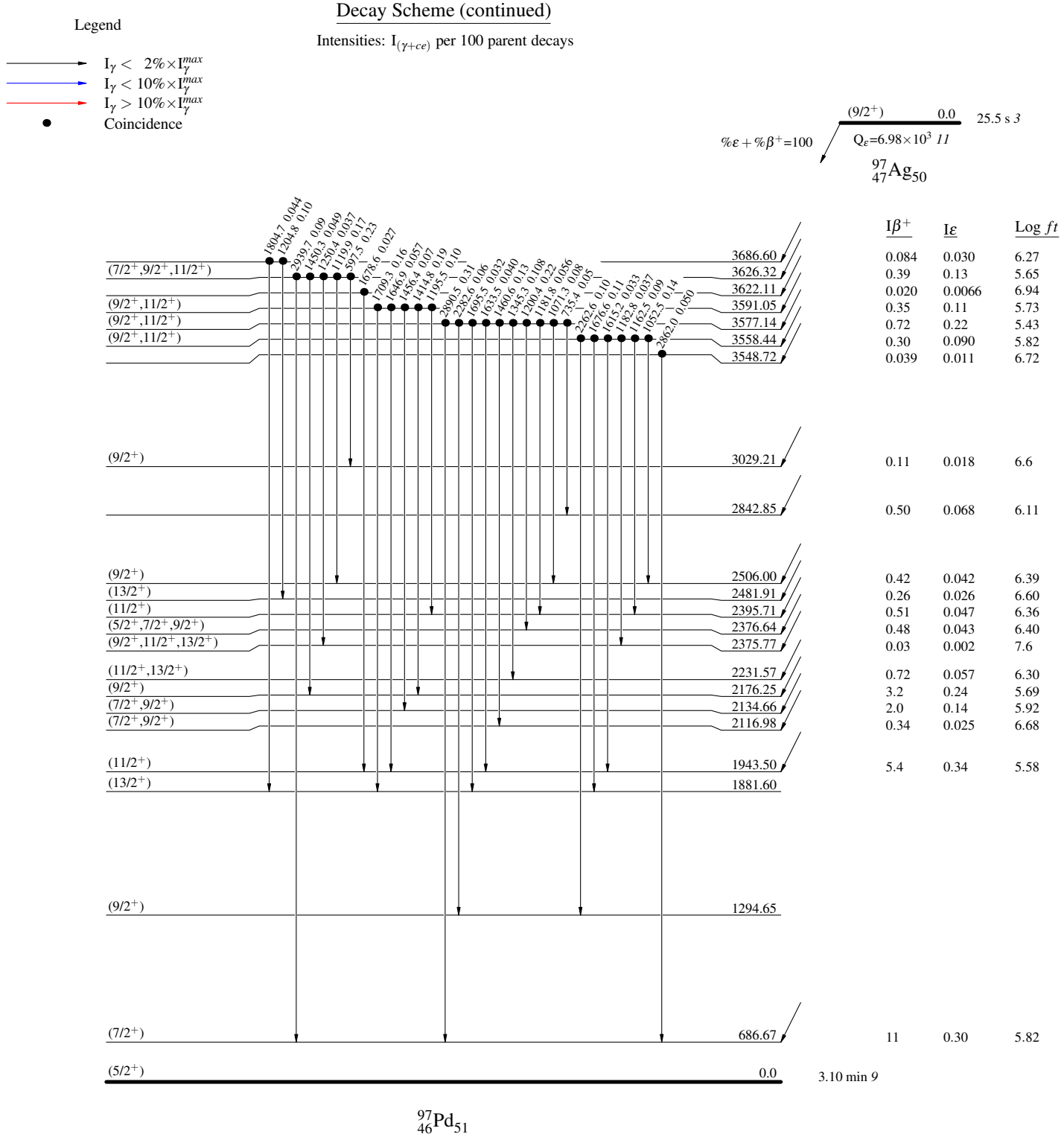
Intensities: $I_{(\gamma+ce)}$ per 100 parent decays



^{97}Ag ε decay (25.5 s) 1999Hu10,1997Sc30,1982Ku15

Decay Scheme (continued)

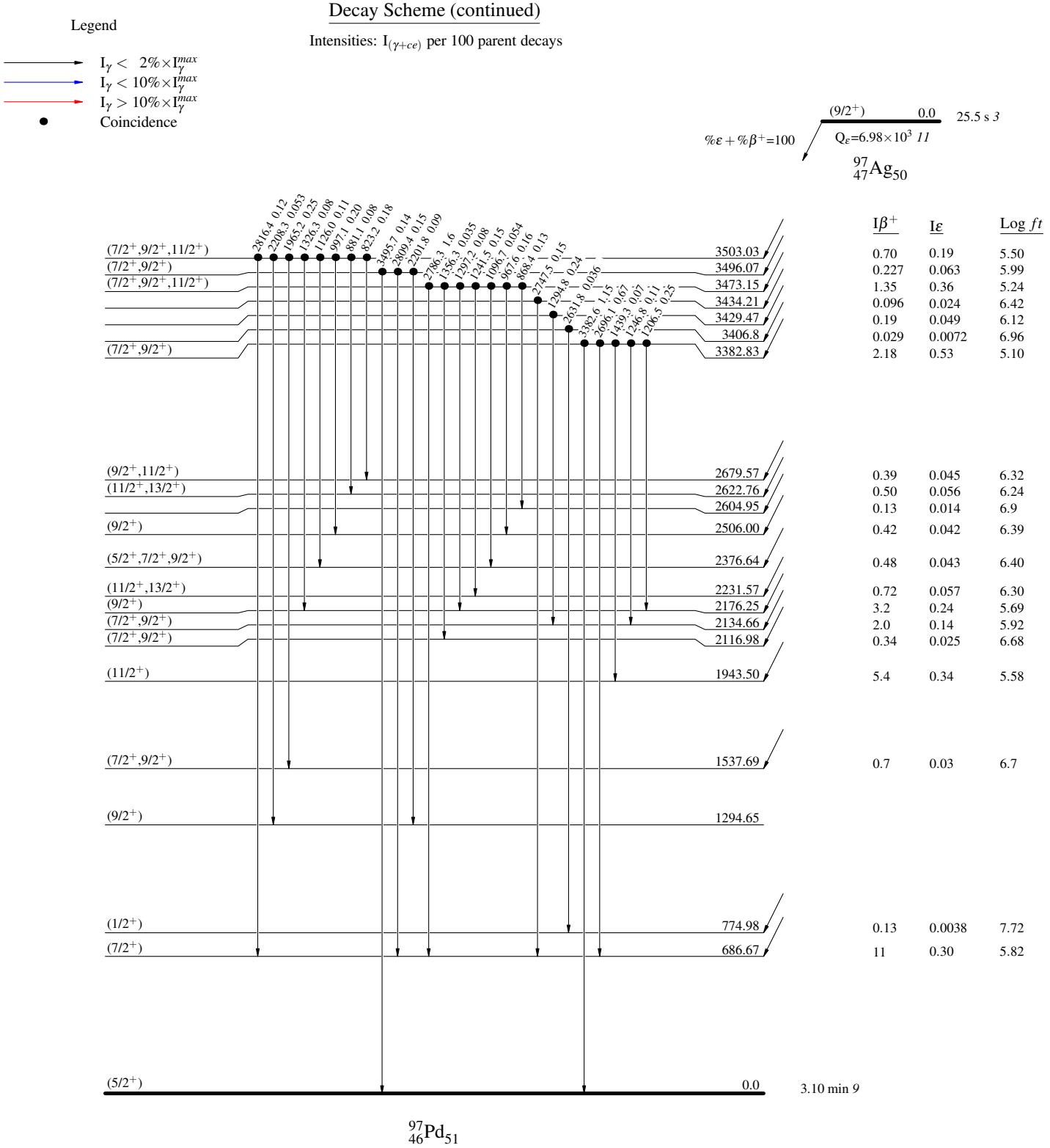
Intensities: $I_{(\gamma+ce)}$ per 100 parent decays



^{97}Ag ε decay (25.5 s) 1999Hu10,1997Sc30,1982Ku15

Decay Scheme (continued)

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

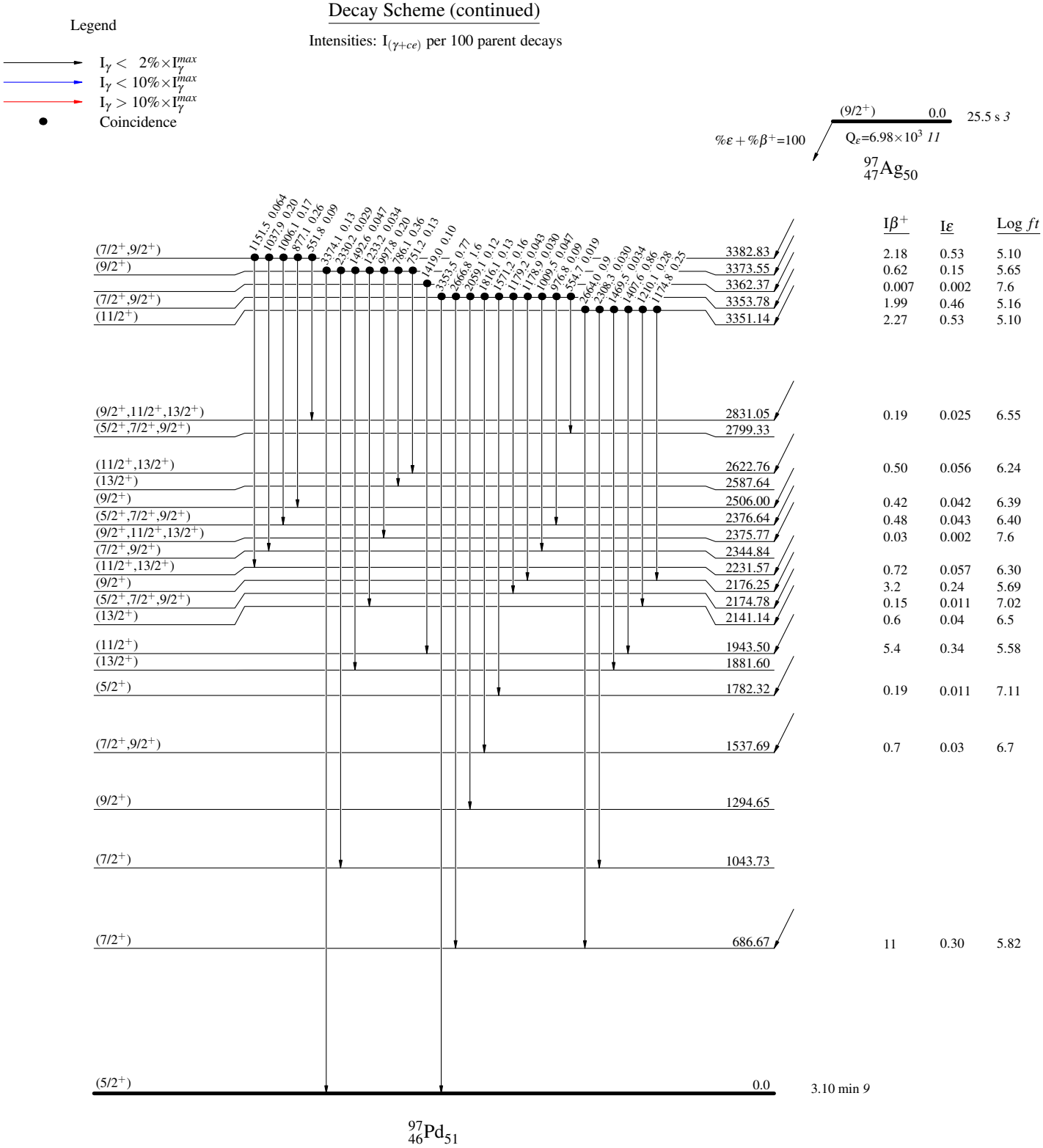


	Iβ+	Iε	Log *ft*
	0.70	0.19	5.50
	0.227	0.063	5.99
	1.35	0.36	5.24
	0.096	0.024	6.42
	0.19	0.049	6.12
	0.029	0.0072	6.96
	2.18	0.53	5.10
	0.39	0.045	6.32
	0.50	0.056	6.24
	0.13	0.014	6.9
	0.42	0.042	6.39
	0.48	0.043	6.40
	0.72	0.057	6.30
	3.2	0.24	5.69
	2.0	0.14	5.92
	0.34	0.025	6.68
	5.4	0.34	5.58
	0.7	0.03	6.7
	0.13	0.0038	7.72
	11	0.30	5.82

^{97}Ag ε decay (25.5 s) 1999Hu10,1997Sc30,1982Ku15

Decay Scheme (continued)

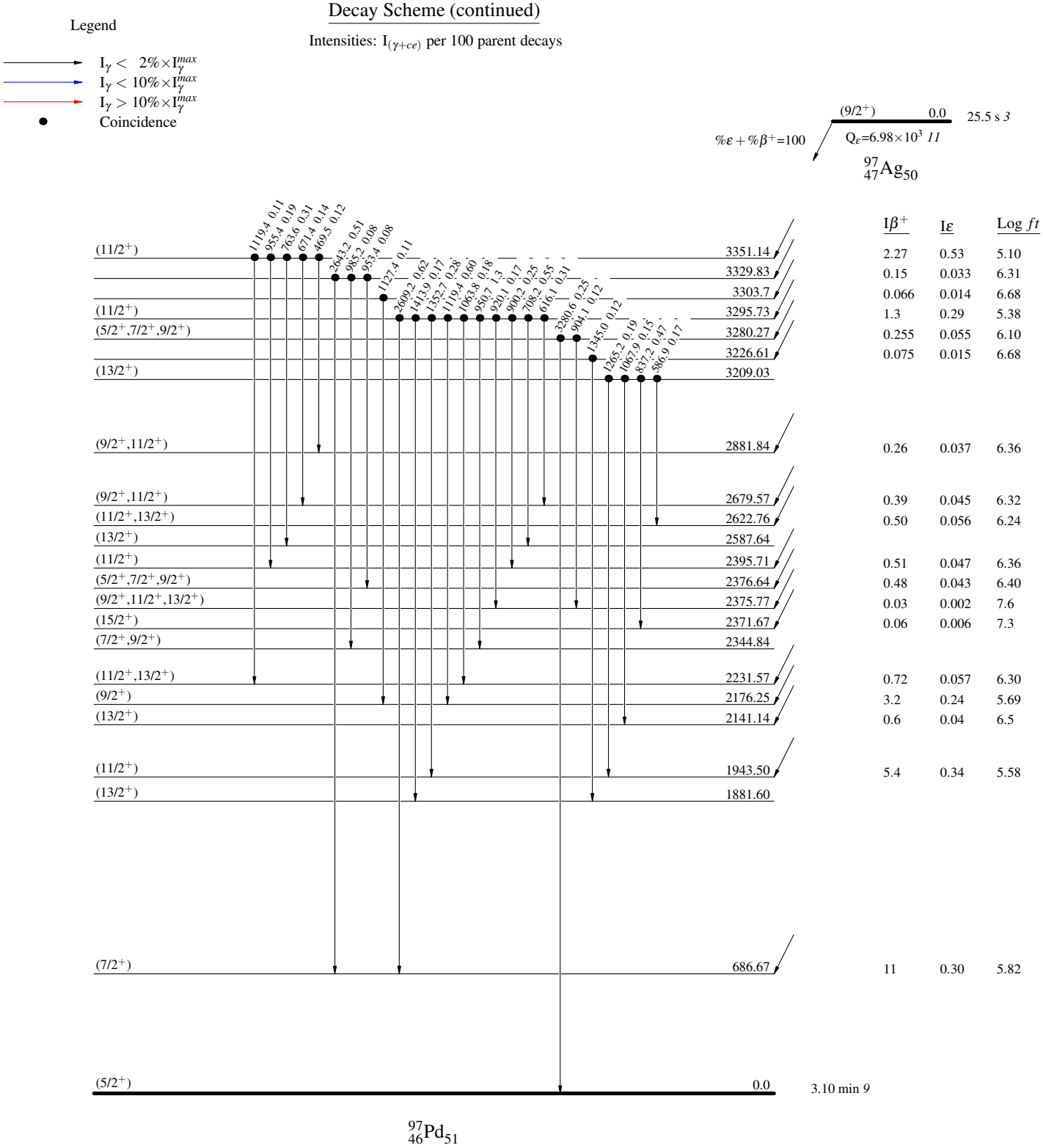
Intensities: $I_{(\gamma+ce)}$ per 100 parent decays



^{97}Ag ε decay (25.5 s) 1999Hu10,1997Sc30,1982Ku15

Decay Scheme (continued)

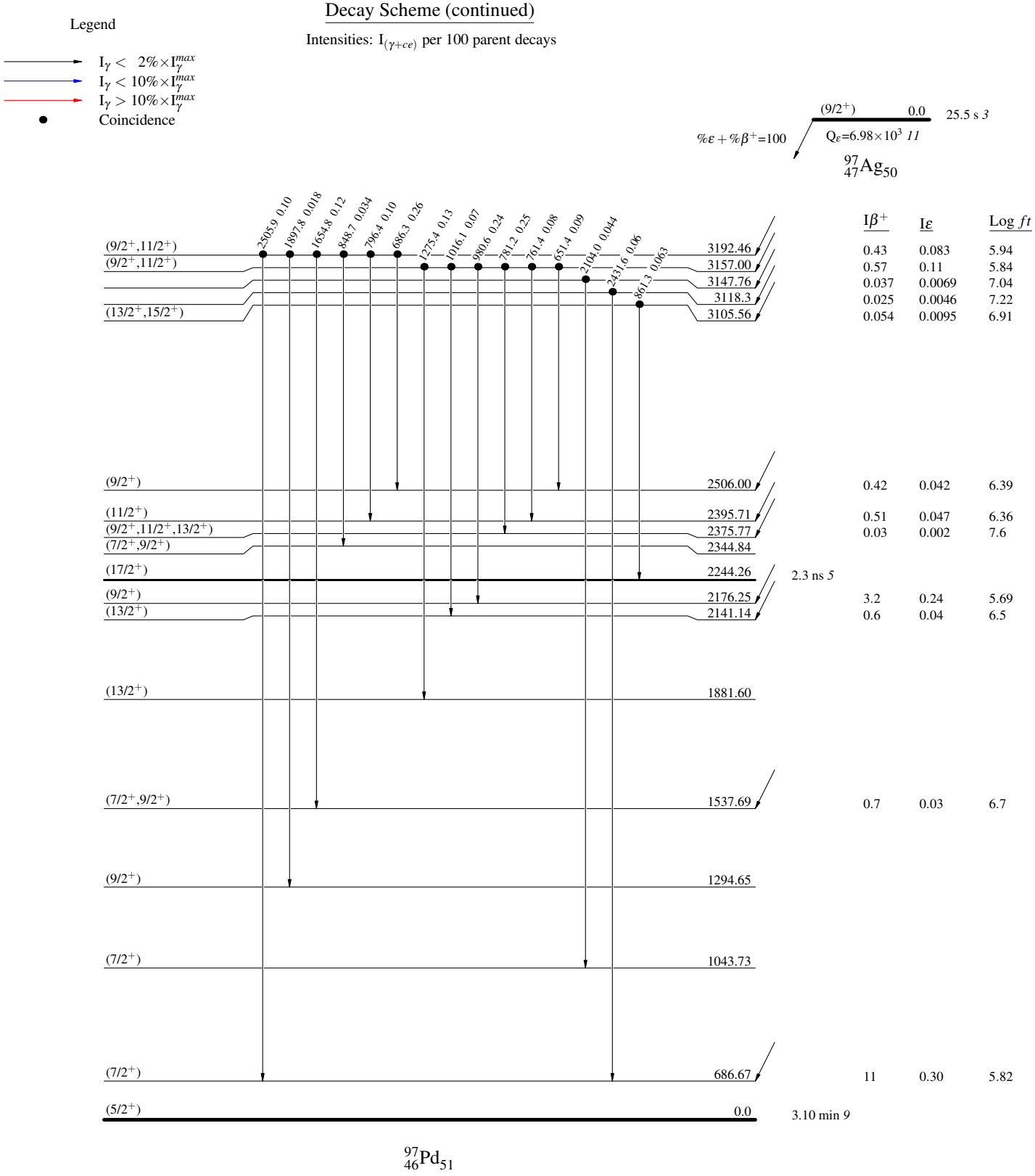
Intensities: $I_{(\gamma+ce)}$ per 100 parent decays



^{97}Ag ε decay (25.5 s) 1999Hu10,1997Sc30,1982Ku15

Decay Scheme (continued)

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



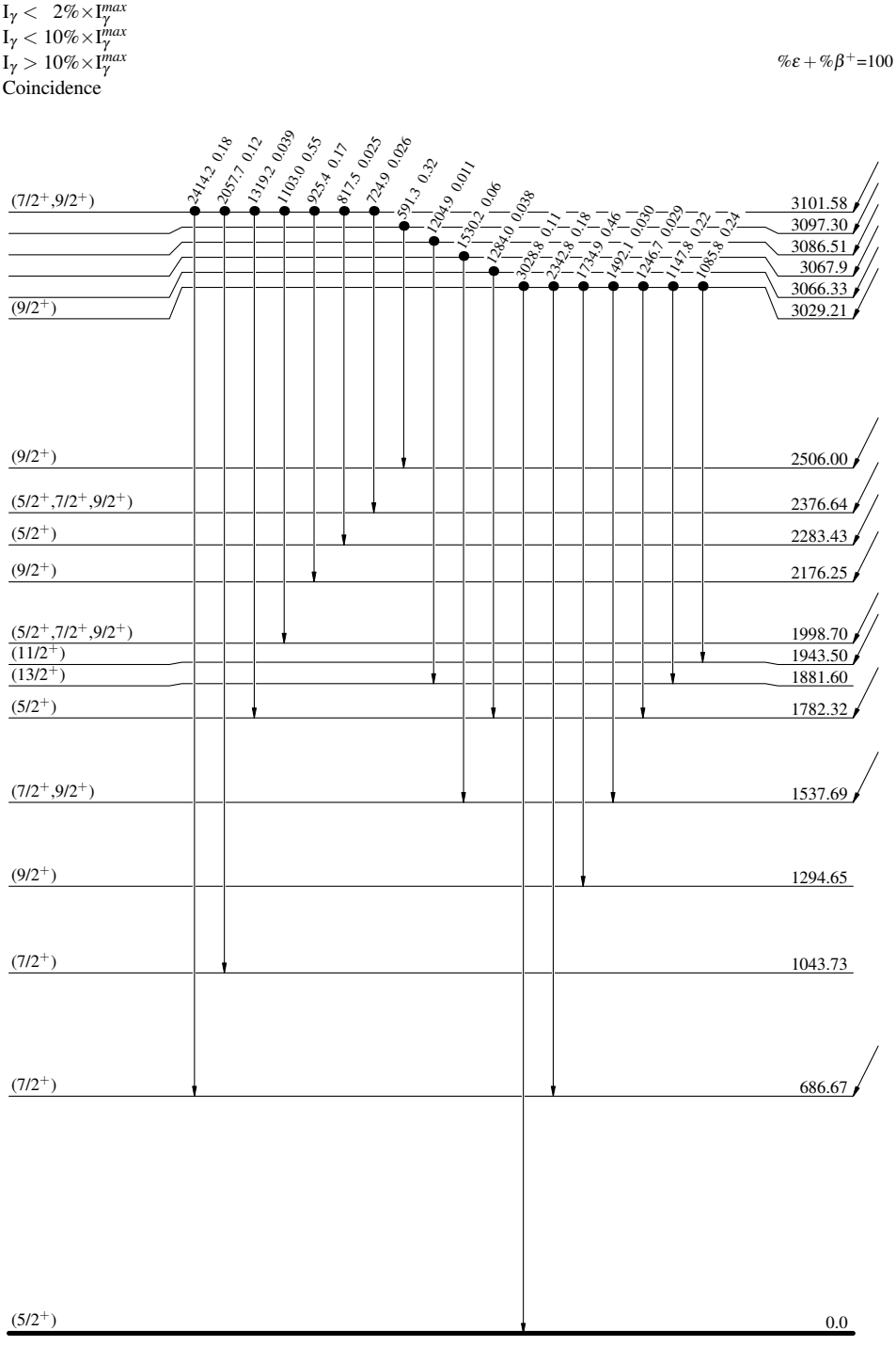
^{97}Ag ε decay (25.5 s) 1999Hu10,1997Sc30,1982Ku15

Decay Scheme (continued)

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

Legend

$I_\gamma < 2\% \times I_\gamma^{max}$
$I_\gamma < 10\% \times I_\gamma^{max}$
$I_\gamma > 10\% \times I_\gamma^{max}$
Coincidence

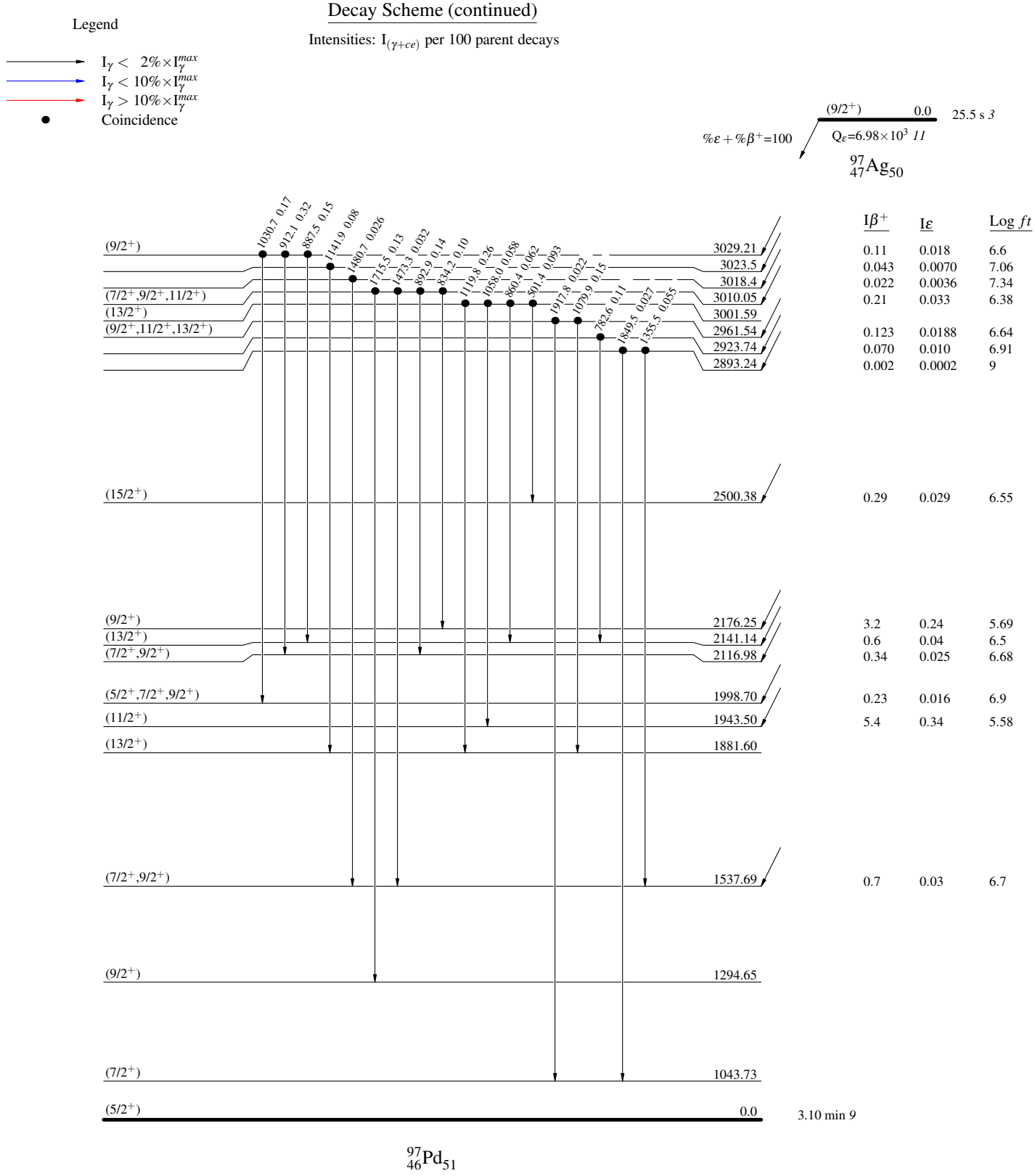


	Iβ+	Iε	Log *ft*
3101.58	0.77	0.13	5.75
3097.30	0.27	0.048	6.21
3086.51	0.009	0.0016	7.7
3067.9	0.026	0.0044	7.25
3066.33	0.032	0.0055	7.15
3029.21	0.11	0.018	6.6
2506.00	0.42	0.042	6.39
2376.64	0.48	0.043	6.40
2283.43	0.14	0.011	6.99
2176.25	3.2	0.24	5.69
1998.70	0.23	0.016	6.9
1943.50	5.4	0.34	5.58
1782.32	0.19	0.011	7.11
1537.69	0.7	0.03	6.7
686.67	11	0.30	5.82

^{97}Ag ε decay (25.5 s) 1999Hu10,1997Sc30,1982Ku15

Decay Scheme (continued)

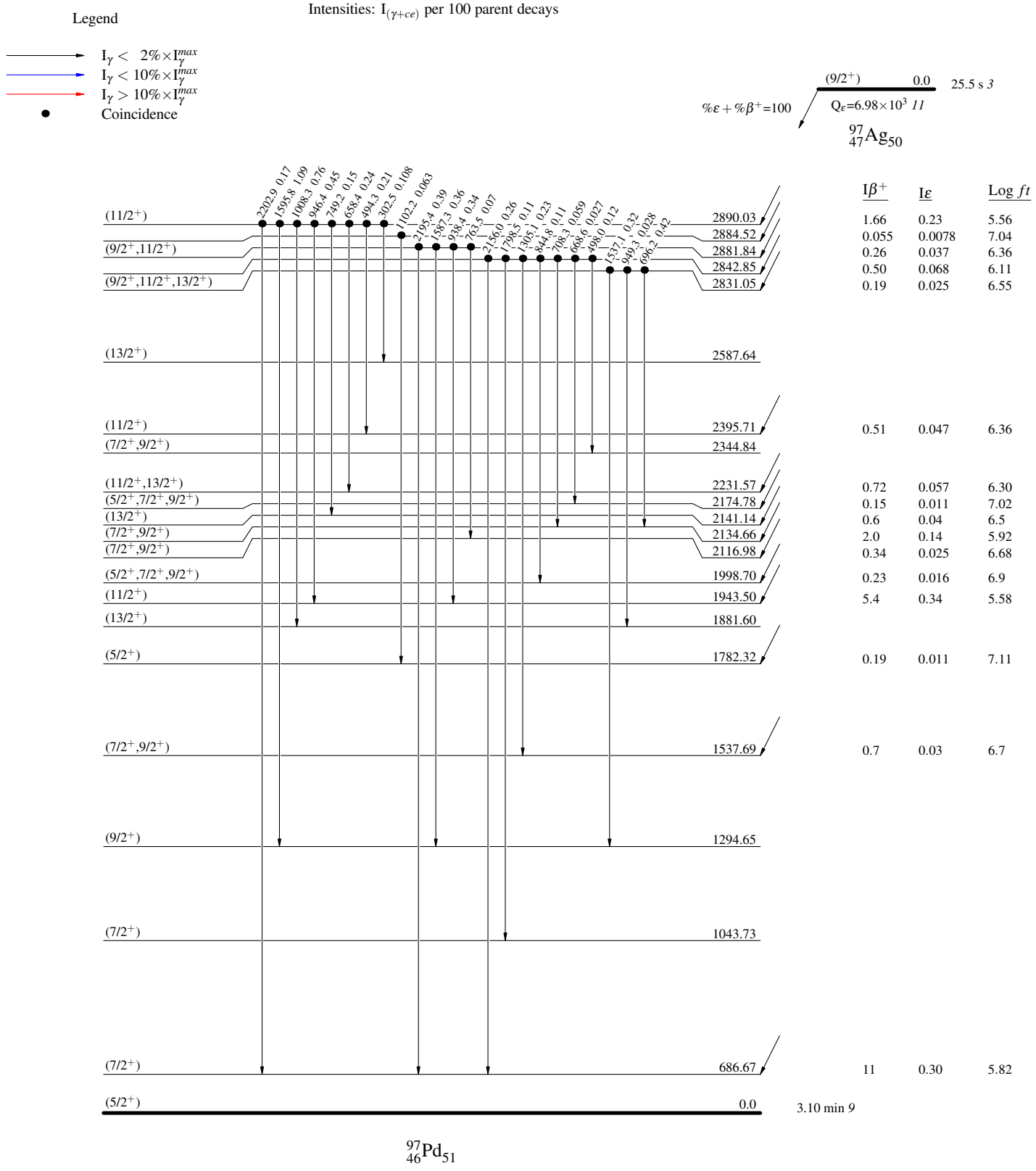
Intensities: $I_{(\gamma+ce)}$ per 100 parent decays



^{97}Ag ε decay (25.5 s) 1999Hu10,1997Sc30,1982Ku15

Decay Scheme (continued)

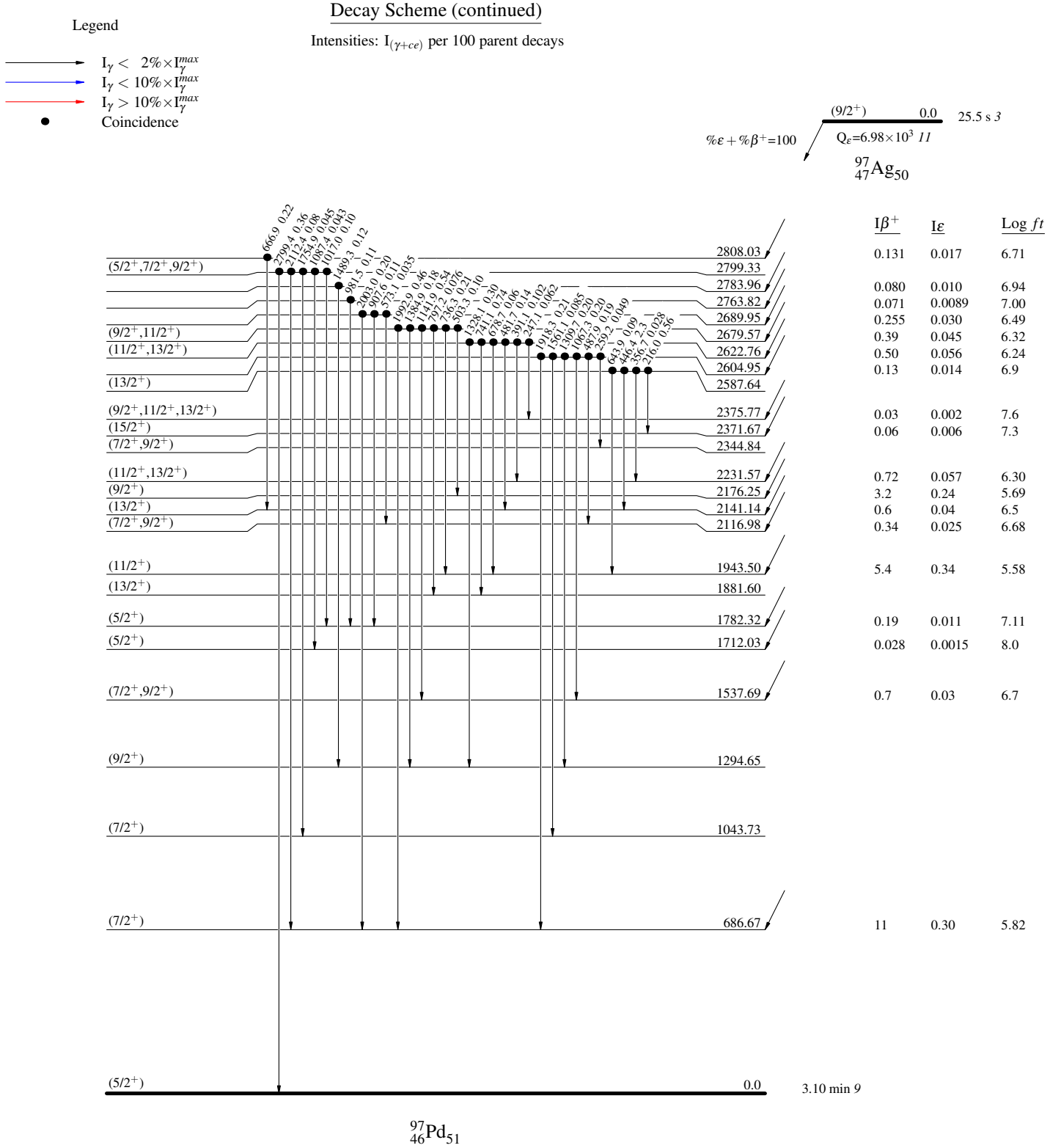
Intensities: $I_{(\gamma+ce)}$ per 100 parent decays



^{97}Ag ε decay (25.5 s) 1999Hu10,1997Sc30,1982Ku15

Decay Scheme (continued)

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

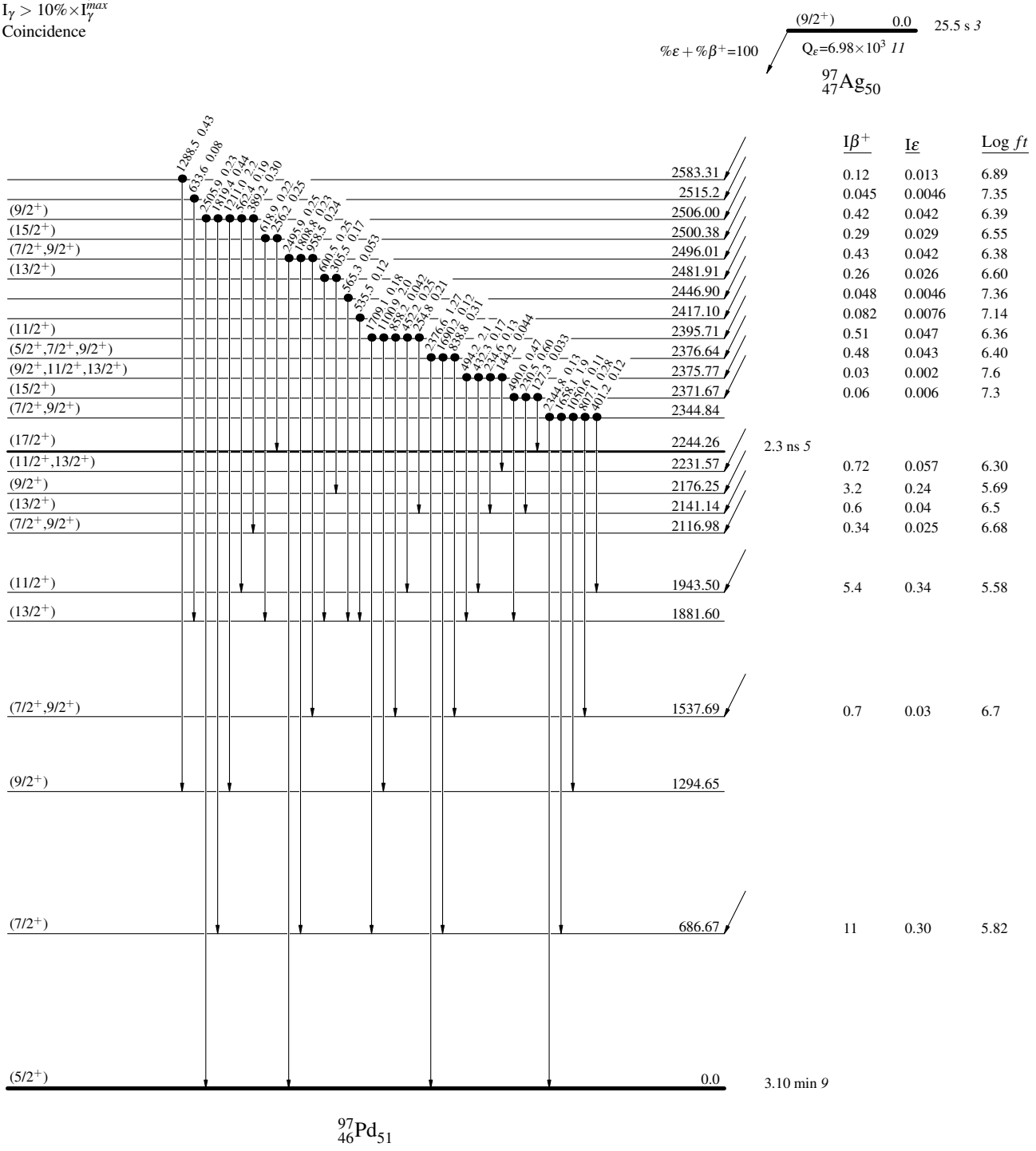


^{97}Ag ε decay (25.5 s) 1999Hu10,1997Sc30,1982Ku15

Decay Scheme (continued)

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

Legend
- $I_\gamma < 2\% \times I_\gamma^{max}$
- $I_\gamma < 10\% \times I_\gamma^{max}$
- $I_\gamma > 10\% \times I_\gamma^{max}$
- Coincidence

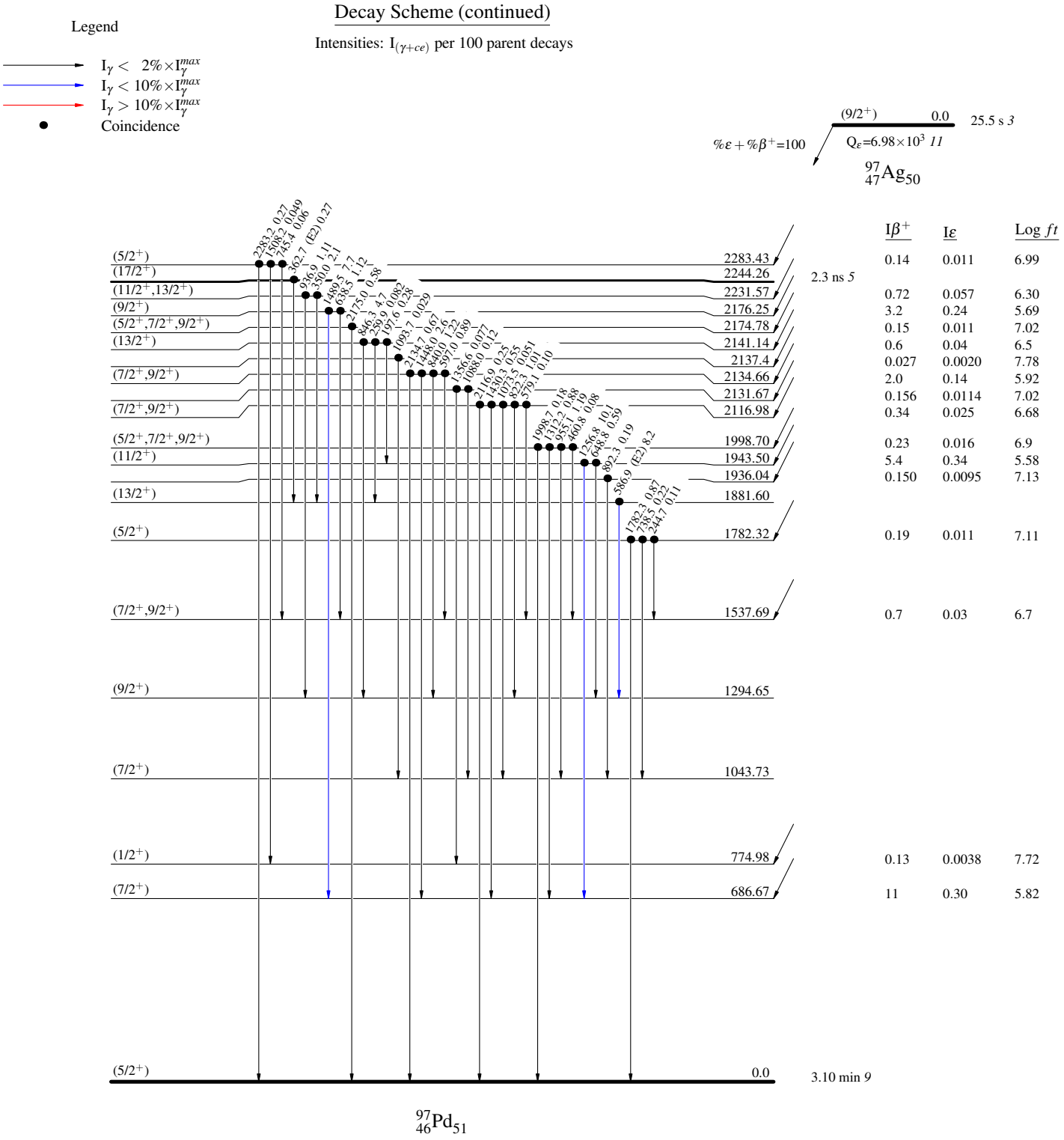


	Iβ+	Iε	Log *ft*
2583.31	0.12	0.013	6.89
2515.2	0.045	0.0046	7.35
(9/2+) 2506.00	0.42	0.042	6.39
(15/2+) 2500.38	0.29	0.029	6.55
(7/2+,9/2+) 2496.01	0.43	0.042	6.38
(13/2+) 2481.91	0.26	0.026	6.60
2446.90	0.048	0.0046	7.36
2417.10	0.082	0.0076	7.14
(11/2+) 2395.71	0.51	0.047	6.36
(5/2+,7/2+,9/2+) 2376.64	0.48	0.043	6.40
(9/2+,11/2+,13/2+) 2375.77	0.03	0.002	7.6
(15/2+) 2371.67	0.06	0.006	7.3
(7/2+,9/2+) 2344.84			
(17/2+) 2244.26 2.3 ns 5			
(11/2+,13/2+) 2231.57	0.72	0.057	6.30
(9/2+) 2176.25	3.2	0.24	5.69
(13/2+) 2141.14	0.6	0.04	6.5
(7/2+,9/2+) 2116.98	0.34	0.025	6.68
(11/2+) 1943.50	5.4	0.34	5.58
(13/2+) 1881.60			
(7/2+,9/2+) 1537.69	0.7	0.03	6.7
(9/2+) 1294.65			
(7/2+) 686.67	11	0.30	5.82
(5/2+) 0.0 3.10 min 9			

^{97}Ag ε decay (25.5 s) 1999Hu10,1997Sc30,1982Ku15

Decay Scheme (continued)

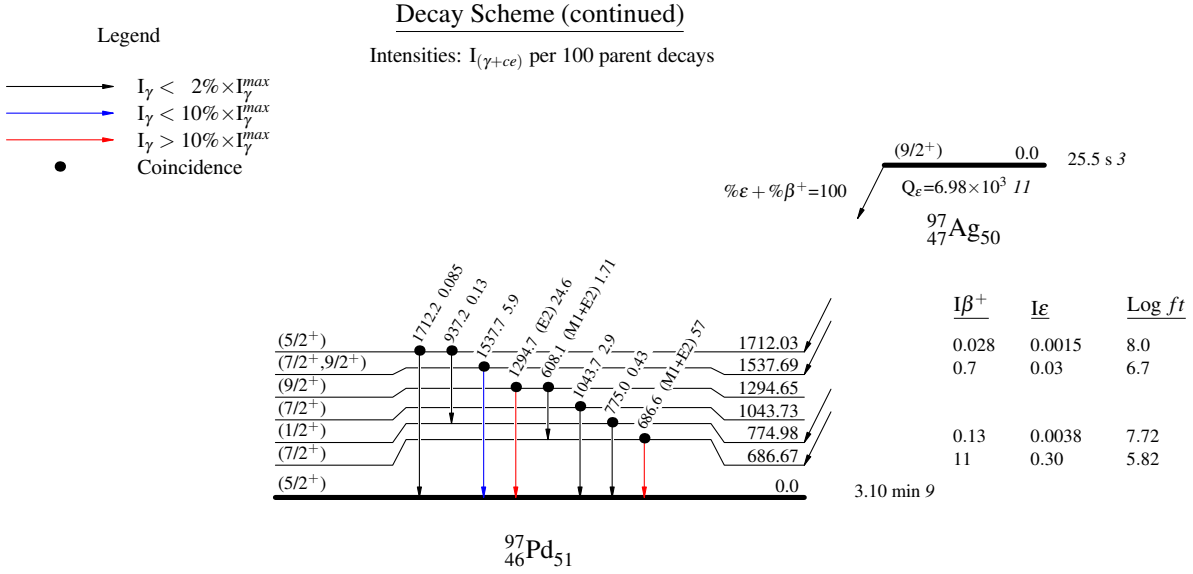
Intensities: $I_{(\gamma+ce)}$ per 100 parent decays



^{97}Ag ε decay (25.5 s) 1999Hu10,1997Sc30,1982Ku15

Decay Scheme (continued)

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



	Iβ+	Iε	Log ft
1712.03	0.028	0.0015	8.0
1537.69	0.7	0.03	6.7
774.98	0.13	0.0038	7.72
686.67	11	0.30	5.82