^{98}Ag ε decay (47.5 s) 2000Hu17,2001HuZZ

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	Jun Chen, Balraj Singh	NDS 164, 1 (2020)	15-Feb-2020

Parent: ^{98}Ag: E=0; $J^\pi=(6^+)$; $T_{1/2}$=47.5 s *3*; Q(ε)=8250 *30*; %ε+%$β^+$ decay=100.0

^{98}Ag-J^π,$T_{1/2}$: From ^{98}Ag Adopted Levels.

^{98}Ag-Q(ε): From 2017Wa10.

2000Hu17, 2001HuZZ: ^{98}Ag was produced via fusion-evaporation reaction ^{61}Ni(^{40}Ca,1p2n) with E=3.75 MeV/nucleon ^{40}Ca beam provided from the GSI accelerator facility on a 86.4% enriched ^{61}Ni target. Reaction products were separated by the GSI on-line mass separator and ^{98}Ag ions were implanted into the tape of a moving-tape collector. γ rays were detected with the Cluster Cube array of 42 Ge crystals and a total-absorption spectrometer (TAS). Measured Eγ, Iγ, γγ-coin, γ(t). Deduced levels, parent $T_{1/2}$, Q-value, Gamow-Teller strength distribution. Comparisons with shell-model calculations. Data of γ energies and intensities are not reported in 2000Hu17 and are from 2001HuZZ.

Others:

1982Ku15: ^{98}Ag formed by ^{62}Ni(^{40}Ca,p3n). Measured γ, γγ. A total of 24 γ rays reported, 14 of which were assigned amongst 11 levels.

1978Hu11: ^{98}Ag formed by ^{92}Mo(^{14}N,α4n). Measured γ, γγ. Four strong γ rays reported.

1980VeZN: singles $β^+$ data.

The level scheme is from 2001HuZZ. See experimental details in 2000Hu17.

^{98}Pd Levels

E(level)†	Jπ‡	E(level)†	Jπ‡	E(level)†	Jπ‡	E(level)†	Jπ‡
0.0	0^+	3601.66 *13*	$(5,6^+)$	4314.85 *24*		4888.03 *24*	
862.80 *10*	2^+	3633.41 *14*	(5,6,7)	4321.57 *14*	(5,6,7)	4891.69 *14*	$(6^+,7)$
1541.35 *13*	4^+	3708.86 *16*		4332.34 *16*	(7^+)	4918.37 *23*	$(5,6^+)$
1966.13 *14*	(2^+)	3739.95 *24*		4353.63 *15*	(5,6,7)	4929.8 *4*	
2112.42 *13*	6^+	3752.77 *15*	(9^+)	4373.57 *16*		4931.2 *4*	
2289.40 *13*	(4^+)	3759.77 *14*	(5,6,7)	4388.61 *15*	(7^+)	4961.00 *21*	(5,6,7)
2407.94 *13*	$(4,5,6^+)$	3763.39 *14*	(5,6,7)	4406.14 *16*	(5,6,7)	5009.48 *17*	$(5,6^+)$
2564.24 *13*	$(5,6^+)$	3816.50 *16*	(5,6,7)	4410.96 *17*	$(6^+,7)$	5051.48 *15*	(6^+)
2616.98 *14*	$(5,6^+)$	3853.05 *13*	$(5,6^+)$	4412.60 *16*	(5,6,7)	5059.73 *14*	$(5^+,6^+)$
2620.08 *15*	(5^-)	3893.79 *18*		4417.54 *15*	$(5,6^+)$	5062.00 *17*	(5,6,7)
2724.48 *13*	$(5,6^+)$	3905.44 *14*	(5,6,7)	4445.02 *24*		5131.13 *19*	$(5,6^+)$
2767.05 *16*	(4^+)	3928.09 *24*		4464.44 *15*	$(5,6^+)$	5173.59 *14*	$(5^+,6^+)$
2773.15 *13*	8^+	3951.10 *14*	(5,6,7)	4500.51 *19*	$(5,6^+)$	5181.89 *22*	(5,6,7)
2784.11 *16*	$(4,5,6^+)$	3965.26 *14*	(5,6,7)	4515.37 *19*	(5,6,7)	5206.56 *17*	$(5^+,6^+)$
3003.70 *21*	(4^+)	3969.39 *14*	$(5,6^+)$	4522.39 *22*	(7^+)	5207.81 *18*	
3009.00 *13*	$(5,6^+)$	3976.41 *14*	$(6^+,7)$	4541.82 *24*		5212.8 *4*	
3021.72 *24*		3991.89 *25*		4542.73 *14*	$(6^+,7^+)$	5236.70 *16*	$(5^+,6^+,7^+)$
3076.50 *13*	$(6^+,7)$	4050.61 *15*	$(6^+,7)$	4559.56 *13*	$(5^+,6^+)$	5248.42 *18*	(5,6,7)
3091.52 *14*	$(4,5,6^+)$	4081.74 *14*	(5,6,7)	4598.96 *17*	(5,6,7)	5269.14 *25*	
3117.62 *24*		4090.71 *15*	(5,6,7)	4608.72 *17*	(5,6,7)	5282.96 *21*	
3125.24 *13*	$(5^+,6^+)$	4092.2 *4*	$(4,5,6^+)$	4611.3 *5*	(5,6,7)	5286.85 *19*	$(5,6,7^-)$
3173.08 *18*		4105.36 *24*		4615.14 *16*	$(5,6^+)$	5304.07 *16*	$(5^+,6^+)$
3219.41 *13*	$(6^+,7,8^+)$	4124.66 *21*	$(5,6^+)$	4638.05 *15*	(5,6,7)	5314.23 *19*	$(6^+,7)$
3345.27 *13*	$(5,6^+)$	4136.4 *4*		4664.95 *25*		5352.5 *5*	
3347.94 *25*	(4^+)	4152.69 *13*	$(6^+,7^+)$	4691.44 *20*	$(5,6^+)$	5399.77 *24*	(5,6,7)
3349.27 *19*		4164.50 *24*	(5,6,7)	4718.39 *14*	$(6^+,7)$	5416.97 *22*	(5,6,7)
3378.49 *18*	(7^-)	4181.32 *14*	$(5,6^+)$	4756.22 *17*	(5,6,7)	5436.3 *6*	$(5,6^+)$
3401.61 *16*	(4^+)	4222.07 *13*	$(5^+,6^+)$	4766.95 *15*	$(6^+,7)$	5450.64 *21*	(5,6,7)
3440.75 *14*	$(5,6^+)$	4265.60 *14*	(6^+)	4813.56 *24*		5477.44 *17*	$(5^+,6^+)$
3488.95 *24*	$(6^+,7,8)$	4278.16 *17*	$(6^+,7)$	4845.6 *5*		5487.11 *15*	$(5^+,6^+)$
3553.29 *14*	(4^+)	4284.70 *14*	$(5^+,6^+)$	4847.28 *13*	$(6^+,7^+)$	5505.7 *5*	
3582.7 *4*		4291.82 *24*		4877.46 *22*	(5,6,7)	5507.50 *18*	$(5^+,6^+,7^+)$

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^{98}Ag ε decay (47.5 s) 2000Hu17,2001HuZZ (continued)

^{98}Pd Levels (continued)

E(level)†	Jπ‡	E(level)†	Jπ‡	E(level)†	Jπ‡	E(level)†	Jπ‡
5508.9 *4*	(5,6$^+$)	5716.1 *3*		5903.0 *8*		6108.5 *7*	
5536.38 *24*		5717.88 *18*	(5$^+$,6$^+$)	5937.67 *17*	(5$^+$,6$^+$,7$^+$)	6141.1 *5*	
5573.9 *5*	(5,6$^+$)	5723.0 *5*		5951.7 *7*		6143.2 *5*	
5575.2 *3*		5756.09 *24*	(5$^+$,6$^+$,7$^+$)	5964.00 *16*	(6$^+$,7$^+$)	6187.0 *5*	
5576.7 *3*		5779.0 *4*		5971.4 *4*		6200.1 *4*	
5583.4 *7*		5814.98 *22*	(5$^+$,6$^+$)	5982.56 *23*	(5,6$^+$)	6230.5 *8*	
5585.2 *3*		5817.5 *5*		5999.69 *23*	(5$^+$,6$^+$)	6262.8 *3*	(5$^+$,6$^+$)
5619.8 *4*		5833.84 *18*	(5$^+$,6$^+$,7$^+$)	6047.40 *25*	(5$^+$,6$^+$)	6316.0 *4*	
5628.1 *7*		5845.3 *6*		6062.1 *5*		6350.4 *6*	
5706.6 *6*		5852.37 *21*	(5$^+$,6$^+$)	6085.1 *5*		6424.2 *7*	
5708.6 *5*		5883.90 *18*	(5$^+$,6$^+$)	6097.18 *25*		6450.1 *7*	

† From a least squares fit to Eγ values, with a reduced χ^2=2.6. Some of the uncertainties on Eγ values may be underestimated, since about 13 quoted Eγ values deviate from the least-squares fitted value by 3 or more times the quoted uncertainty. Another 35 Eγ values deviate by 2 times the quoted uncertainty.

‡ From Adopted Levels. The assignments are based on ε+β$^+$ feedings from (6$^+$) and γ decay modes. When no J^π is given, log *ft* from (6$^+$) suggests (5,6,7). See also comments in Adopted Levels.

ε,β$^+$ radiations

From intensity balance, feeding to the 863 level is 3 *7*, consistent with no feeding as expected from ΔJ=(4). Apparent feeding of 1.2 *8* to 2773, (8$^+$) level may be due to missing γ-ray intensity feeding this level.

E(decay)	E(level)	Iβ$^+$ #	Iε#	Log *ft*‡	I(ε+β$^+$)†#	Comments
(1.80×10^3 *3*)	6450.1	0.0022 *6*	0.026 *6*	6.1 *1*	0.028 *7*	av Eβ=347 *13*; εK=0.797 *9*; εL=0.1004 *12*; εM+=0.0244 *3*
(1.83×10^3 *3*)	6424.2	0.0017 *5*	0.018 *5*	6.2 *1*	0.020 *5*	av Eβ=359 *13*; εK=0.790 *10*; εL=0.0995 *12*; εM+=0.0241 *3*
(1.90×10^3 *3*)	6350.4	0.0035 *8*	0.027 *5*	6.1 *1*	0.031 *6*	av Eβ=391 *14*; εK=0.766 *11*; εL=0.0964 *14*; εM+=0.0234 *4*
(1.93×10^3 *3*)	6316.0	0.0063 *12*	0.043 *7*	5.9 *1*	0.049 *8*	av Eβ=406 *14*; εK=0.754 *12*; εL=0.0948 *15*; εM+=0.0230 *4*
(1.99×10^3 *3*)	6262.8	0.01 *1*	0.08 *1*	5.68 *6*	0.09 *1*	av Eβ=429 *14*; εK=0.734 *12*; εL=0.0922 *16*; εM+=0.0224 *4*
(2.02×10^3 *3*)	6230.5	0.0055 *13*	0.028 *6*	6.1 *1*	0.033 *7*	av Eβ=443 *14*; εK=0.721 *13*; εL=0.0906 *16*; εM+=0.0220 *4*
(2.05×10^3 *3*)	6200.1	0.0069 *14*	0.031 *6*	6.1 *1*	0.038 *7*	av Eβ=457 *14*; εK=0.708 *13*; εL=0.0890 *17*; εM+=0.0216 *4*
(2.06×10^3 *3*)	6187.0	0.0066 *14*	0.028 *6*	6.2 *1*	0.035 *7*	av Eβ=463 *14*; εK=0.703 *13*; εL=0.0882 *17*; εM+=0.0214 *4*
(2.11×10^3 *3*)	6143.2	0.0082 *16*	0.031 *6*	6.1 *1*	0.039 *7*	av Eβ=482 *14*; εK=0.684 *14*; εL=0.0858 *17*; εM+=0.0208 *5*
(2.11×10^3 *3*)	6141.1	0.0076 *18*	0.028 *6*	6.2 *1*	0.036 *8*	av Eβ=483 *14*; εK=0.683 *14*; εL=0.0857 *17*; εM+=0.0208 *5*
(2.14×10^3 *3*)	6108.5	0.0050 *14*	0.017 *5*	6.4 *1*	0.022 *6*	av Eβ=497 *14*; εK=0.668 *14*; εL=0.0838 *18*; εM+=0.0203 *5*
(2.15×10^3 *3*)	6097.18	0.01 *1*	0.04 *1*	6.1 *1*	0.05 *1*	av Eβ=502 *14*; εK=0.663 *14*; εL=0.0832 *18*; εM+=0.0202 *5*
(2.16×10^3 *3*)	6085.1	0.0041 *10*	0.013 *3*	6.5 *1*	0.017 *4*	av Eβ=508 *14*; εK=0.657 *14*; εL=0.0825 *18*; εM+=0.0200 *5*

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^{98}Ag ε decay (47.5 s) 2000Hu17,2001HuZZ (continued)

ε,β+ radiations (continued)

E(decay)	E(level)	Iβ+ #	Iε#	Log ft‡	I(ε+β+)†#	Comments
(2.19×10³ 3)	6062.1	0.0081 16	0.024 5	6.3 1	0.032 6	av Eβ=518 14; εK=0.647 14; εL=0.0812 18; εM+=0.0197 5
(2.20×10³ 3)	6047.40	0.047 6	0.13 2	5.53 6	0.18 2	av Eβ=524 14; εK=0.640 14; εL=0.0803 18; εM+=0.0195 5
(2.25×10³ 3)	5999.69	0.034 3	0.086 7	5.74 5	0.12 1	av Eβ=546 14; εK=0.618 15; εL=0.0774 18; εM+=0.0188 5
(2.27×10³ 3)	5982.56	0.030 3	0.070 7	5.84 5	0.10 1	av Eβ=553 14; εK=0.609 15; εL=0.0764 18; εM+=0.0185 5
(2.28×10³ 3)	5971.4	0.02 1	0.05 1	6.0 1	0.07 1	av Eβ=558 14; εK=0.604 15; εL=0.0757 19; εM+=0.0184 5
(2.29×10³ 3)	5964.00	0.076 7	0.17 1	5.45 5	0.25 2	av Eβ=561 14; εK=0.601 15; εL=0.0753 19; εM+=0.0183 5
(2.30×10³ 3)	5951.7	0.0078 16	0.017 3	6.5 1	0.025 5	av Eβ=567 14; εK=0.595 15; εL=0.0745 19; εM+=0.0181 5
(2.31×10³ 3)	5937.67	0.093 11	0.20 2	5.41 5	0.29 3	av Eβ=573 14; εK=0.588 15; εL=0.0737 19; εM+=0.0179 5
(2.35×10³ 3)	5903.0	0.01 1	0.03 1	6.3 1	0.04 1	av Eβ=589 14; εK=0.572 15; εL=0.0716 19; εM+=0.0174 5
(2.37×10³ 3)	5883.90	0.11 1	0.19 1	5.43 4	0.30 2	av Eβ=597 14; εK=0.562 15; εL=0.0705 18; εM+=0.0171 5
(2.40×10³ 3)	5852.37	0.085 8	0.15 1	5.57 5	0.23 2	av Eβ=611 14; εK=0.547 15; εL=0.0686 18; εM+=0.0166 5
(2.40×10³ 3)	5845.3	0.016 3	0.028 5	6.3 1	0.044 8	av Eβ=614 14; εK=0.544 15; εL=0.0681 18; εM+=0.0165 5
(2.42×10³ 3)	5833.84	0.10 1	0.17 1	5.50 4	0.28 2	av Eβ=620 14; εK=0.539 15; εL=0.0674 18; εM+=0.0164 5
(2.43×10³ 3)	5817.5	0.012 3	0.019 4	6.5 1	0.031 7	av Eβ=627 14; εK=0.531 15; εL=0.0665 18; εM+=0.0161 5
(2.44×10³ 3)	5814.98	0.078 8	0.12 1	5.66 5	0.20 2	av Eβ=628 14; εK=0.530 15; εL=0.0663 18; εM+=0.0161 5
(2.47×10³ 3)	5779.0	0.03 1	0.04 1	6.1 1	0.07 1	av Eβ=644 14; εK=0.513 14; εL=0.0642 18; εM+=0.0156 5
(2.49×10³ 3)	5756.09	0.071 9	0.099 12	5.77 6	0.17 2	av Eβ=654 14; εK=0.502 14; εL=0.0629 18; εM+=0.0152 5
(2.53×10³ 3)	5723.0	0.019 4	0.024 5	6.4 1	0.043 8	av Eβ=669 14; εK=0.487 14; εL=0.0610 18; εM+=0.0148 5
(2.53×10³ 3)	5717.88	0.17 1	0.21 2	5.45 5	0.38 3	av Eβ=672 14; εK=0.485 14; εL=0.0607 18; εM+=0.0147 5
(2.53×10³ 3)	5716.1	0.020 3	0.025 4	6.4 1	0.045 7	av Eβ=672 14; εK=0.484 14; εL=0.0606 18; εM+=0.0147 5
(2.54×10³ 3)	5708.6	0.03 1	0.03 1	6.3 1	0.06 1	av Eβ=676 14; εK=0.481 14; εL=0.0601 18; εM+=0.0146 5
(2.54×10³ 3)	5706.6	0.012 3	0.015 4	6.6 1	0.027 7	av Eβ=677 14; εK=0.480 14; εL=0.0600 18; εM+=0.0145 5
(2.62×10³ 3)	5628.1	0.019 4	0.020 4	6.5 1	0.039 8	av Eβ=712 14; εK=0.445 13; εL=0.0557 17; εM+=0.0135 4
(2.63×10³ 3)	5619.8	0.029 5	0.031 5	6.3 1	0.060 9	av Eβ=716 14; εK=0.442 13; εL=0.0552 17; εM+=0.0134 4
(2.66×10³ 3)	5585.2	0.027 4	0.026 4	6.4 1	0.053 8	av Eβ=731 14; εK=0.427 13; εL=0.0534 16; εM+=0.0129 4
(2.67×10³ 3)	5583.4	0.025 5	0.025 5	6.4 1	0.05 1	av Eβ=732 14; εK=0.426 13; εL=0.0533 16; εM+=0.0129 4
(2.67×10³ 3)	5576.7	0.051 5	0.049 5	6.14 5	0.10 1	av Eβ=735 14; εK=0.423 13; εL=0.0529 16; εM+=0.0128 4
(2.67×10³ 3)	5575.2	0.051 5	0.049 5	6.14 5	0.10 1	av Eβ=736 14; εK=0.423 13; εL=0.0529 16;

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^{98}Ag ε decay (47.5 s) 2000Hu17,2001HuZZ (continued)

ε,β+ radiations (continued)

E(decay)	E(level)	Iβ+ #	Iε#	Log ft‡	I(ε+β+)†#	Comments
						εM+=0.0128 *4*
(2.68×10^3 *3*)	5573.9	0.02 *1*	0.01 *1*	6.7 *2*	0.03 *1*	av Eβ=737 *14*; εK=0.422 *13*; εL=0.0528 *16*; εM+=0.0128 *4*
(2.71×10^3 *3*)	5536.38	0.074 *11*	0.066 *10*	6.0 *1*	0.14 *2*	av Eβ=753 *14*; εK=0.407 *13*; εL=0.0509 *16*; εM+=0.0123 *4*
(2.74×10^3 *3*)	5508.9	0.12 *2*	0.11 *2*	5.8 *1*	0.23 *4*	av Eβ=766 *14*; εK=0.396 *12*; εL=0.0495 *15*; εM+=0.0120 *4*
(2.74×10^3 *3*)	5507.50	0.17 *1*	0.15 *1*	5.69 *4*	0.32 *2*	av Eβ=767 *14*; εK=0.395 *12*; εL=0.0494 *15*; εM+=0.0120 *4*
(2.74×10^3 *3*)	5505.7	0.022 *4*	0.019 *4*	6.6 *1*	0.041 *8*	av Eβ=767 *14*; εK=0.395 *12*; εL=0.0493 *15*; εM+=0.0120 *4*
(2.76×10^3 *3*)	5487.11	0.38 *2*	0.31 *2*	5.37 *4*	0.69 *4*	av Eβ=776 *14*; εK=0.387 *12*; εL=0.0484 *15*; εM+=0.0117 *4*
(2.77×10^3 *3*)	5477.44	0.29 *2*	0.23 *2*	5.50 *4*	0.52 *4*	av Eβ=780 *14*; εK=0.384 *12*; εL=0.0479 *15*; εM+=0.0116 *4*
(2.80×10^3 *3*)	5450.64	0.13 *1*	0.095 *9*	5.89 *5*	0.22 *2*	av Eβ=792 *14*; εK=0.374 *12*; εL=0.0467 *15*; εM+=0.0113 *4*
(2.81×10^3 *3*)	5436.3	0.020 *3*	0.014 *3*	6.7 *1*	0.034 *6*	av Eβ=799 *14*; εK=0.368 *12*; εL=0.0460 *15*; εM+=0.0111 *4*
(2.83×10^3 *3*)	5416.97	0.082 *6*	0.058 *5*	6.11 *4*	0.14 *1*	av Eβ=808 *14*; εK=0.361 *11*; εL=0.0451 *14*; εM+=0.0109 *4*
(2.85×10^3 *3*)	5399.77	0.11 *1*	0.078 *9*	5.99 *6*	0.19 *2*	av Eβ=816 *14*; εK=0.355 *11*; εL=0.0443 *14*; εM+=0.0107 *4*
(2.90×10^3 *3*)	5352.5	0.024 *4*	0.015 *2*	6.7 *1*	0.039 *6*	av Eβ=837 *14*; εK=0.338 *11*; εL=0.0422 *14*; εM+=0.0102 *4*
(2.94×10^3 *3*)	5314.23	0.15 *1*	0.090 *8*	5.95 *5*	0.24 *2*	av Eβ=855 *14*; εK=0.325 *10*; εL=0.0406 *13*; εM+=0.0098 *3*
(2.95×10^3 *3*)	5304.07	0.37 *3*	0.22 *2*	5.57 *4*	0.59 *4*	av Eβ=859 *14*; εK=0.322 *10*; εL=0.0402 *13*; εM+=0.0097 *3*
(2.96×10^3 *3*)	5286.85	0.21 *2*	0.12 *1*	5.84 *5*	0.33 *3*	av Eβ=867 *14*; εK=0.316 *10*; εL=0.0395 *13*; εM+=0.0096 *3*
(2.97×10^3 *3*)	5282.96	0.05 *1*	0.03 *1*	6.45 *6*	0.08 *1*	av Eβ=869 *14*; εK=0.315 *10*; εL=0.0393 *13*; εM+=0.0095 *3*
(2.98×10^3 *3*)	5269.14	0.06 *1*	0.03 *1*	6.41 *6*	0.09 *1*	av Eβ=875 *14*; εK=0.311 *10*; εL=0.0388 *13*; εM+=0.0094 *3*
(3.00×10^3 *3*)	5248.42	0.19 *2*	0.10 *1*	5.92 *5*	0.29 *3*	av Eβ=885 *14*; εK=0.304 *10*; εL=0.0380 *12*; εM+=0.0092 *3*
(3.01×10^3 *3*)	5236.70	0.40 *2*	0.22 *1*	5.60 *3*	0.62 *3*	av Eβ=890 *14*; εK=0.301 *10*; εL=0.0375 *12*; εM+=0.0091 *3*
(3.04×10^3 *3*)	5212.8	0.066 *7*	0.034 *4*	6.41 *5*	0.10 *1*	av Eβ=901 *14*; εK=0.293 *10*; εL=0.0366 *12*; εM+=0.0089 *3*
(3.04×10^3 *3*)	5207.81	0.020 *2*	0.010 *1*	6.94 *5*	0.030 *3*	av Eβ=903 *14*; εK=0.292 *9*; εL=0.0364 *12*; εM+=0.0088 *3*
(3.04×10^3 *3*)	5206.56	0.33 *3*	0.17 *1*	5.71 *5*	0.50 *4*	av Eβ=904 *14*; εK=0.291 *9*; εL=0.0364 *12*; εM+=0.0088 *3*
(3.07×10^3 *3*)	5181.89	0.074 *7*	0.036 *3*	6.4 *1*	0.11 *2*	av Eβ=915 *14*; εK=0.284 *9*; εL=0.0355 *11*; εM+=0.0086 *3*
(3.08×10^3 *3*)	5173.59	1.3 *1*	0.62 *4*	5.16 *4*	1.9 *1*	av Eβ=919 *14*; εK=0.282 *9*; εL=0.0352 *11*; εM+=0.0085 *3*
(3.12×10^3 *3*)	5131.13	0.14 *1*	0.065 *7*	6.15 *5*	0.22 *2*	av Eβ=938 *14*; εK=0.270 *9*; εL=0.0337 *11*; εM+=0.0082 *3*
(3.19×10^3 *3*)	5062.00	0.085 *7*	0.035 *3*	6.44 *5*	0.12 *1*	av Eβ=970 *14*; εK=0.252 *8*; εL=0.0314 *10*; εM+=0.00760 *24*
(3.19×10^3 *3*)	5059.73	0.63 *3*	0.26 *1*	5.57 *3*	0.89 *4*	av Eβ=971 *14*; εK=0.251 *8*; εL=0.0313 *10*; εM+=0.00759 *24*

Continued on next page (footnotes at end of table)

^{98}Ag ε decay (47.5 s) 2000Hu17,2001HuZZ (continued)

ε,β+ radiations (continued)

E(decay)	E(level)	Iβ+ #	Iε#	Log ft‡	I(ε+β+)†#	Comments
(3.20×10^3 3)	5051.48	0.56 3	0.23 1	5.63 3	0.79 4	av Eβ=975 14; εK=0.249 8; εL=0.0310 10; εM+=0.00752 24
(3.24×10^3 3)	5009.48	0.34 3	0.13 1	5.88 5	0.47 4	av Eβ=994 14; εK=0.239 8; εL=0.0297 10; εM+=0.00721 23
(3.29×10^3 3)	4961.00	0.074 7	0.026 3	6.59 5	0.10 2	av Eβ=1017 14; εK=0.227 7; εL=0.0283 9; εM+=0.00686 21
(3.32×10^3 3)	4931.2	0.05 1	0.02 1	6.8 1	0.07 1	av Eβ=1031 14; εK=0.221 7; εL=0.0275 9; εM+=0.00666 21
(3.32×10^3 3)	4929.8	0.034 5	0.011 2	7.0 1	0.045 7	av Eβ=1031 14; εK=0.220 7; εL=0.0275 9; εM+=0.00665 21
(3.33×10^3 3)	4918.37	0.11 2	0.038 5	6.4 1	0.15 2	av Eβ=1036 14; εK=0.218 7; εL=0.0272 9; εM+=0.00658 20
(3.36×10^3 3)	4891.69	0.45 3	0.15 1	5.86 4	0.60 4	av Eβ=1049 14; εK=0.212 7; εL=0.0264 8; εM+=0.00640 20
(3.36×10^3 3)	4888.03	0.07 1	0.02 1	6.69 6	0.09 1	av Eβ=1050 14; εK=0.211 7; εL=0.0263 8; εM+=0.00638 20
(3.37×10^3 3)	4877.46	0.15 2	0.048 5	6.35 7	0.20 3	av Eβ=1055 14; εK=0.209 7; εL=0.0261 8; εM+=0.00632 20
(3.40×10^3 3)	4847.28	3.23 11	0.99 5	5.04 3	4.2 2	av Eβ=1069 14; εK=0.203 6; εL=0.0253 8; εM+=0.00613 19
(3.40×10^3 3)	4845.6	0.05 1	0.02 1	6.8 1	0.07 1	av Eβ=1070 14; εK=0.203 6; εL=0.0253 8; εM+=0.00612 19
(3.44×10^3 3)	4813.56	0.07 1	0.02 1	6.74 6	0.09 1	av Eβ=1085 14; εK=0.196 6; εL=0.0245 8; εM+=0.00593 18
(3.48×10^3 3)	4766.95	0.36 2	0.100 7	6.06 4	0.46 3	av Eβ=1106 14; εK=0.188 6; εL=0.0234 7; εM+=0.00566 17
(3.49×10^3 3)	4756.22	0.13 2	0.036 4	6.50 6	0.17 2	av Eβ=1111 14; εK=0.186 6; εL=0.0231 7; εM+=0.00561 17
(3.53×10^3 3)	4718.39	0.56 3	0.14 1	5.91 4	0.70 4	av Eβ=1129 14; εK=0.179 6; εL=0.0223 7; εM+=0.00540 16
(3.56×10^3 3)	4691.44	0.15 2	0.038 4	6.49 5	0.19 2	av Eβ=1142 14; εK=0.175 6; εL=0.0217 7; εM+=0.00526 16
(3.59×10^3 3)	4664.95	0.080 8	0.020 2	6.79 5	0.10 1	av Eβ=1154 14; εK=0.170 5; εL=0.0212 7; εM+=0.00513 15
(3.61×10^3 3)	4638.05	0.23 2	0.056 4	6.35 5	0.29 3	av Eβ=1166 14; εK=0.166 5; εL=0.0206 6; εM+=0.00500 15
(3.63×10^3 3)	4615.14	0.19 2	0.043 4	6.46 5	0.23 2	av Eβ=1177 14; εK=0.162 5; εL=0.0202 6; εM+=0.00489 15
(3.64×10^3 3)	4611.3	0.15 2	0.035 6	6.6 1	0.19 3	av Eβ=1179 14; εK=0.162 5; εL=0.0201 6; εM+=0.00488 15
(3.64×10^3 3)	4608.72	0.098 8	0.022 2	6.75 5	0.12 1	av Eβ=1180 14; εK=0.161 5; εL=0.0201 6; εM+=0.00487 14
(3.65×10^3 3)	4598.96	0.24 2	0.054 6	6.37 5	0.29 3	av Eβ=1185 14; εK=0.160 5; εL=0.0199 6; εM+=0.00482 14
(3.69×10^3 3)	4559.56	1.82 7	0.393 18	5.52 3	2.21 8	av Eβ=1203 14; εK=0.154 5; εL=0.0192 6; εM+=0.00464 14
(3.71×10^3 3)	4542.73	1.00 5	0.212 12	5.79 3	1.21 6	av Eβ=1211 14; εK=0.152 5; εL=0.0189 6; εM+=0.00457 13
(3.71×10^3 3)	4541.82	0.056 7	0.012 2	7.04 6	0.068 9	av Eβ=1211 14; εK=0.152 5; εL=0.0189 6; εM+=0.00457 13
(3.73×10^3 3)	4522.39	0.083 8	0.017 2	6.88 5	0.10 1	av Eβ=1220 14; εK=0.149 5; εL=0.0185 6; εM+=0.00449 13
(3.73×10^3 3)	4515.37	0.13 3	0.027 7	6.7 1	0.16 4	av Eβ=1223 14; εK=0.148 5; εL=0.0184 6; εM+=0.00446 13
(3.75×10^3 3)	4500.51	0.21 2	0.042 4	6.50 4	0.25 2	av Eβ=1230 14; εK=0.146 5; εL=0.0181 6;

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^{98}Ag ε decay (47.5 s) 2000Hu17,2001HuZZ (continued)

ε,β+ radiations (continued)

E(decay)	E(level)	Iβ+ #	Iε#	Log ft‡	I(ε+β+)†#	Comments
						εM+=0.00440 *13*
(3.79×10^3 *3*)	4464.44	0.68 *4*	0.13 *1*	6.01 *4*	0.81 *5*	av Eβ=1247 *14*; εK=0.141 *4*; εL=0.0176 *5*; εM+=0.00425 *12*
(3.80×10^3 *3*)	4445.02	0.07 *1*	0.01 *1*	7.03 *6*	0.08 *1*	av Eβ=1256 *14*; εK=0.139 *4*; εL=0.0172 *5*; εM+=0.00418 *12*
(3.83×10^3 *3*)	4417.54	0.69 *4*	0.13 *1*	6.04 *4*	0.82 *5*	av Eβ=1269 *14*; εK=0.135 *4*; εL=0.0168 *5*; εM+=0.00407 *12*
(3.84×10^3 *3*)	4412.60	0.28 *3*	0.051 *5*	6.43 *5*	0.33 *3*	av Eβ=1271 *14*; εK=0.135 *4*; εL=0.0167 *5*; εM+=0.00405 *12*
(3.84×10^3 *3*)	4410.96	0.19 *2*	0.034 *3*	6.61 *5*	0.22 *2*	av Eβ=1272 *14*; εK=0.134 *4*; εL=0.0167 *5*; εM+=0.00405 *12*
(3.84×10^3 *3*)	4406.14	0.19 *2*	0.034 *3*	6.61 *5*	0.22 *2*	av Eβ=1274 *14*; εK=0.134 *4*; εL=0.0166 *5*; εM+=0.00403 *12*
(3.86×10^3 *3*)	4388.61	0.15 *2*	0.027 *3*	6.71 *6*	0.18 *2*	av Eβ=1283 *14*; εK=0.132 *4*; εL=0.0164 *5*; εM+=0.00397 *11*
(3.88×10^3 *3*)	4373.57	0.03 *2*	0.006 *3*	7.4 *2*	0.04 *2*	av Eβ=1290 *14*; εK=0.130 *4*; εL=0.0162 *5*; εM+=0.00391 *11*
(3.90×10^3 *3*)	4353.63	0.32 *3*	0.056 *5*	6.41 *4*	0.38 *3*	av Eβ=1299 *14*; εK=0.128 *4*; εL=0.0159 *5*; εM+=0.00384 *11*
(3.92×10^3 *3*)	4332.34	0.22 *2*	0.038 *3*	6.57 *6*	0.27 *3*	av Eβ=1309 *14*; εK=0.125 *4*; εL=0.0156 *5*; εM+=0.00377 *11*
(3.93×10^3 *3*)	4321.57	0.87 *5*	0.146 *10*	6.00 *4*	1.02 *6*	av Eβ=1314 *14*; εK=0.124 *4*; εL=0.0154 *5*; εM+=0.00374 *11*
(3.94×10^3 *3*)	4314.85	0.06 *1*	0.010 *1*	7.2 *1*	0.07 *1*	av Eβ=1317 *14*; εK=0.123 *4*; εL=0.0153 *5*; εM+=0.00371 *10*
(3.96×10^3 *3*)	4291.82	0.052 *8*	0.0085 *13*	7.2 *1*	0.061 *9*	av Eβ=1328 *14*; εK=0.121 *4*; εL=0.0150 *4*; εM+=0.00364 *10*
(3.97×10^3 *3*)	4284.70	2.3 *1*	0.37 *2*	5.60 *3*	2.7 *1*	av Eβ=1331 *14*; εK=0.120 *4*; εL=0.0149 *4*; εM+=0.00362 *10*
(3.97×10^3 *3*)	4278.16	0.16 *2*	0.025 *3*	6.78 *6*	0.18 *2*	av Eβ=1334 *14*; εK=0.119 *4*; εL=0.0148 *4*; εM+=0.00359 *10*
(3.98×10^3 *3*)	4265.60	2.7 *2*	0.42 *3*	5.55 *4*	3.1 *2*	av Eβ=1340 *14*; εK=0.118 *4*; εL=0.0147 *4*; εM+=0.00355 *10*
(4.03×10^3 *3*)	4222.07	2.2 *1*	0.33 *2*	5.67 *3*	2.5 *1*	av Eβ=1361 *14*; εK=0.114 *3*; εL=0.0141 *4*; εM+=0.00342 *10*
(4.07×10^3 *3*)	4181.32	0.72 *4*	0.11 *1*	6.17 *3*	0.83 *4*	av Eβ=1380 *14*; εK=0.110 *3*; εL=0.0136 *4*; εM+=0.00330 *9*
(4.09×10^3 *3*)	4164.50	0.22 *3*	0.031 *4*	6.70 *6*	0.25 *3*	av Eβ=1388 *14*; εK=0.108 *3*; εL=0.0134 *4*; εM+=0.00325 *9*
(4.10×10^3 *3*)	4152.69	3.9 *2*	0.56 *3*	5.46 *3*	4.5 *2*	av Eβ=1393 *14*; εK=0.107 *3*; εL=0.0133 *4*; εM+=0.00322 *9*
(4.11×10^3 *3*)	4136.4	0.037 *6*	0.0051 *9*	7.5 *1*	0.042 *7*	av Eβ=1401 *15*; εK=0.105 *3*; εL=0.0131 *4*; εM+=0.00318 *9*
(4.13×10^3 *3*)	4124.66	0.11 *1*	0.016 *1*	6.98 *4*	0.14 *1*	av Eβ=1406 *15*; εK=0.104 *3*; εL=0.0130 *4*; εM+=0.00315 *9*
(4.14×10^3 *3*)	4105.36	0.088 *9*	0.012 *1*	7.14 *5*	0.10 *1*	av Eβ=1416 *15*; εK=0.103 *3*; εL=0.0128 *4*; εM+=0.00309 *8*
(4.16×10^3 *3*)	4092.2	0.05 *3*	0.007 *4*	7.4 *2*	0.06 *3*	av Eβ=1422 *15*; εK=0.102 *3*; εL=0.0126 *4*; εM+=0.00306 *8*
(4.16×10^3 *3*)	4090.71	0.22 *2*	0.029 *2*	6.75 *4*	0.25 *2*	av Eβ=1422 *15*; εK=0.101 *3*; εL=0.0126 *4*; εM+=0.00306 *8*
(4.17×10^3 *3*)	4081.74	0.23 *4*	0.030 *5*	6.7 *1*	0.26 *4*	av Eβ=1427 *15*; εK=0.101 *3*; εL=0.0125 *4*; εM+=0.00303 *8*
(4.20×10^3 *3*)	4050.61	0.80 *5*	0.10 *1*	6.21 *4*	0.90 *6*	av Eβ=1441 *15*; εK=0.098 *3*; εL=0.0122 *4*; εM+=0.00295 *8*

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^{98}Ag ε decay (47.5 s) 2000Hu17,2001HuZZ (continued)

ε,β+ radiations (continued)

E(decay)	E(level)	Iβ+ #	Iε#	Log ft‡	I(ε+β+)†#	Comments
(4.26×10³ 3)	3991.89	0.08 1	0.010 1	7.25 6	0.09 1	av Eβ=1469 15; εK=0.0934 24; εL=0.0116 3; εM+=0.00281 8
(4.27×10³ 3)	3976.41	0.92 7	0.110 9	6.20 4	1.03 8	av Eβ=1476 15; εK=0.0923 24; εL=0.0115 3; εM+=0.00278 7
(4.28×10³ 3)	3969.39	1.11 7	0.131 9	6.12 4	1.24 8	av Eβ=1480 15; εK=0.0917 23; εL=0.0114 3; εM+=0.00276 7
(4.28×10³ 3)	3965.26	0.8 1	0.09 1	6.26 6	0.9 1	av Eβ=1481 15; εK=0.0914 23; εL=0.0114 3; εM+=0.00275 7
(4.30×10³ 3)	3951.10	0.48 4	0.056 4	6.49 5	0.54 5	av Eβ=1488 15; εK=0.0904 23; εL=0.0112 3; εM+=0.00272 7
(4.32×10³ 3)	3928.09	0.11 1	0.012 1	7.16 4	0.12 1	av Eβ=1499 15; εK=0.0887 22; εL=0.0110 3; εM+=0.00267 7
(4.34×10³ 3)	3905.44	1.2 1	0.13 1	6.14 4	1.3 1	av Eβ=1510 15; εK=0.0871 22; εL=0.0108 3; εM+=0.00262 7
(4.36×10³ 3)	3893.79	0.12 1	0.013 1	7.14 4	0.13 1	av Eβ=1515 15; εK=0.0863 22; εL=0.0107 3; εM+=0.00260 7
(4.40×10³ 3)	3853.05	1.4 1	0.14 1	6.10 4	1.5 1	av Eβ=1534 15; εK=0.0835 21; εL=0.0104 3; εM+=0.00251 7
(4.43×10³ 3)	3816.50	0.51 5	0.052 5	6.55 5	0.56 5	av Eβ=1552 15; εK=0.0811 20; εL=0.01007 25; εM+=0.00244 6
(4.49×10³ 3)	3763.39	0.66 12	0.065 12	6.5 1	0.72 13	av Eβ=1577 15; εK=0.0777 19; εL=0.00966 24; εM+=0.00234 6
(4.49×10³ 3)	3759.77	1.03 9	0.101 9	6.28 5	1.13 10	av Eβ=1578 15; εK=0.0775 19; εL=0.00963 23; εM+=0.00233 6
(4.50×10³@ 3)	3752.77	0.11 2	0.011 2	7.3 1	0.12 2	av Eβ=1582 15; εK=0.0771 19; εL=0.00958 23; εM+=0.00232 6 Log ft: too low for ΔJ=(3) transition. Apparent ε+β+ feeding may be due to missing γ transition feeding 3752.8 level.
(4.51×10³ 3)	3739.95	0.091 9	0.0088 9	7.34 5	0.10 1	av Eβ=1588 15; εK=0.0763 19; εL=0.00948 23; εM+=0.00230 6
(4.54×10³ 3)	3708.86	0.16 2	0.015 2	7.10 5	0.18 2	av Eβ=1603 15; εK=0.0745 18; εL=0.00926 22; εM+=0.00224 6
(4.62×10³ 3)	3633.41	0.80 6	0.071 5	6.46 4	0.87 6	av Eβ=1638 15; εK=0.0703 17; εL=0.00873 21; εM+=0.00211 5
(4.65×10³ 3)	3601.66	1.3 1	0.11 1	6.24 4	1.5 1	av Eβ=1653 15; εK=0.0686 16; εL=0.00852 20; εM+=0.00206 5
(4.67×10³ 3)	3582.7	0.035 6	0.0030 6	7.8 1	0.038 7	av Eβ=1662 15; εK=0.0677 16; εL=0.00840 20; εM+=0.00203 5
(4.70×10³ 3)	3553.29	0.19 4	0.016 3	7.1 1	0.21 4	av Eβ=1676 15; εK=0.0662 15; εL=0.00822 19; εM+=0.00199 5
(4.76×10³ 3)	3488.95	0.10 2	0.0080 15	7.4 1	0.11 2	av Eβ=1707 15; εK=0.0631 15; εL=0.00783 18; εM+=0.00190 5
(4.81×10³ 3)	3440.75	3.0 2	0.22 2	5.98 3	3.3 2	av Eβ=1730 15; εK=0.0609 14; εL=0.00756 17; εM+=0.00183 4
(4.85×10³ 3)	3401.61	0.39 6	0.029 4	6.9 1	0.42 6	av Eβ=1748 15; εK=0.0592 13; εL=0.00735 17; εM+=0.00178 4
(4.87×10³ 3)	3378.49	0.42 4	0.030 3	6.87 5	0.45 4	av Eβ=1759 15; εK=0.0582 13; εL=0.00723 16; εM+=0.00175 4
(4.90×10³ 3)	3349.27	0.22 2	0.016 1	7.16 4	0.24 2	av Eβ=1773 15; εK=0.0570 13; εL=0.00708 16; εM+=0.00171 4
(4.90×10³ 3)	3347.94	0.058 8	0.0041 6	7.8 1	0.062 9	av Eβ=1774 15; εK=0.0570 13; εL=0.00707 16; εM+=0.00171 4
(4.90×10³ 3)	3345.27	2.0 2	0.14 1	6.22 5	2.1 2	av Eβ=1775 15; εK=0.0569 13; εL=0.00706 16; εM+=0.00171 4

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^{98}Ag ε decay (47.5 s) 2000Hu17,2001HuZZ (continued)

ε,β+ radiations (continued)

E(decay)	E(level)	Iβ+ #	Iε#	Log ft‡	I(ε+β+)†#	Comments
(5.03×10³ 3)	3219.41	0.32 16	0.020 10	7.1 2	0.34 17	av Eβ=1835 15; εK=0.0520 11; εL=0.00646 14; εM+=0.00156 4
(5.08×10³ 3)	3173.08	0.18 2	0.011 1	7.34 5	0.19 2	av Eβ=1857 15; εK=0.0504 11; εL=0.00625 14; εM+=0.00151 4
(5.12×10³ 3)	3125.24	6.2 4	0.37 2	5.83 3	6.6 4	av Eβ=1880 15; εK=0.0488 11; εL=0.00605 13; εM+=0.00146 3
(5.13×10³ 3)	3117.62	0.13 2	0.0078 11	7.5 1	0.14 2	av Eβ=1883 15; εK=0.0485 10; εL=0.00602 13; εM+=0.00146 3
(5.16×10³ 3)	3091.52	0.43 8	0.025 4	7.0 1	0.45 8	av Eβ=1896 15; εK=0.0477 10; εL=0.00591 13; εM+=0.00143 3
(5.17×10³ 3)	3076.50	1.4 3	0.082 16	6.5 1	1.5 3	av Eβ=1903 15; εK=0.0472 10; εL=0.00585 12; εM+=0.00142 3
(5.23×10³ 3)	3021.72	0.14 2	0.0079 11	7.52 6	0.15 2	av Eβ=1929 15; εK=0.0455 10; εL=0.00564 12; εM+=0.00137 3
(5.24×10³ 3)	3009.00	1.6 2	0.088 11	6.47 6	1.7 2	av Eβ=1935 15; εK=0.0451 10; εL=0.00559 12; εM+=0.00135 3
(5.25×10³ 3)	3003.70	0.16 5	0.009 3	7.5 2	0.17 5	av Eβ=1938 15; εK=0.0449 9; εL=0.00557 12; εM+=0.00135 3
(5.47×10³ 3)	2784.11	0.41 5	0.019 2	7.17 6	0.43 5	av Eβ=2043 15; εK=0.0390 8; εL=0.00483 10; εM+=0.001170 23
(5.48×10³@ 3)	2773.15	1.1 8	0.05 4	6.7 3	1.2 8	av Eβ=2048 15; εK=0.0387 8; εL=0.00480 10; εM+=0.001162 23 Log ft: too low for ΔJ=(2), Δπ=no transition. Apparent ε+β+ feeding may be due to missing γ transition feeding the 2773 level.
(5.48×10³ 3)	2767.05	0.43 4	0.020 2	7.15 4	0.45 4	av Eβ=2051 15; εK=0.0385 8; εL=0.00478 10; εM+=0.001157 23
(5.53×10³ 3)	2724.48	3.3 7	0.15 3	6.29 9	3.4 7	av Eβ=2071 15; εK=0.0375 8; εL=0.00465 9; εM+=0.001126 22
(5.63×10³ 3)	2620.08	2.3 3	0.097 12	6.49 6	2.4 3	av Eβ=2122 15; εK=0.0352 7; εL=0.00436 9; εM+=0.001055 20
(5.63×10³ 3)	2616.98	1.8 2	0.077 8	6.59 5	1.9 2	av Eβ=2123 15; εK=0.0351 7; εL=0.00435 9; εM+=0.001053 20
(5.69×10³ 3)	2564.24	2.3 10	0.09 4	6.5 2	2.4 10	av Eβ=2148 15; εK=0.0340 7; εL=0.00421 8; εM+=0.001020 19
(5.84×10³ 3)	2407.94	0.8 3	0.03 1	7.1 2	0.8 3	av Eβ=2223 15; εK=0.0310 6; εL=0.00384 7; εM+=0.000929 17
(5.96×10³ 3)	2289.40	1.1 4	0.037 13	7.0 2	1.1 4	av Eβ=2280 15; εK=0.0289 5; εL=0.00358 7; εM+=0.000866 16
(6.14×10³@ 3)	2112.42	<8	<0.2	>6.2	<8	av Eβ=2366 15; εK=0.0261 5; εL=0.00324 6; εM+=0.000784 14 I(ε+β+): upper limit from 3 5, deduced from intensity balance.
(6.28×10³@ 3)	1966.13	0.15 7	0.0042 19	8.0 2	0.15 7	av Eβ=2436 15; εK=0.0241 4; εL=0.00299 5; εM+=0.000723 12 β feeding is questionable in view of ΔJ=(4) involved.
(6.71×10³@ 3)	1541.35	<11	<0.24	>6.2	<11	av Eβ=2641 15; εK=0.0193 3; εL=0.00239 4; εM+=0.000578 9 I(ε+β+): upper limit from 4 7, deduced from intensity balance.

† From γ-ray intensity imbalance at each level.

Continued on next page (footnotes at end of table)

^{98}Ag ε decay (47.5 s) 2000Hu17,2001HuZZ (continued)

ε,β$^+$ radiations (continued)

‡ Values are rounded off to nearest tenth. Overall uncertainty is estimated as ≥0.1.
# Absolute intensity per 100 decays.
@ Existence of this branch is questionable.

γ(^{98}Pd)

Iγ normalization: Iγ(863γ)=100.

E_γ†	I_γ†@	E_i(level)	J_i^π	E_f	J_f^π	Comments
160.1 *1*	0.31 *2*	2724.48	(5,6$^+$)	2564.24	(5,6$^+$)	
209.1 *2*	0.18 *3*	2616.98	(5,6$^+$)	2407.94	(4,5,6$^+$)	
251.4 *1*	0.11 *1*	3853.05	(5,6$^+$)	3601.66	(5,6$^+$)	
303.3 *1*	1.7 *1*	3076.50	(6$^+$,7)	2773.15	8$^+$	
352.0‡ *1*	2.3 *2*	3076.50	(6$^+$,7)	2724.48	(5,6$^+$)	
393.1 *2*	0.09 *1*	4152.69	(6$^+$,7$^+$)	3759.77	(5,6,7)	
414.1 *1*	0.55 *4*	3633.41	(5,6,7)	3219.41	(6$^+$,7,8$^+$)	
416.0 *1*	0.16 *1*	3969.39	(5,6$^+$)	3553.29	(4$^+$)	
435.1 *1*	0.11 *1*	2724.48	(5,6$^+$)	2289.40	(4$^+$)	
446.2 *1*	1.6 *1*	3219.41	(6$^+$,7,8$^+$)	2773.15	8$^+$	
451.8 *1*	12.9 *9*	2564.24	(5,6$^+$)	2112.42	6$^+$	Other: Eγ=452.0 *4*, Iγ=11.0 *6* (1982Ku15).
494.7 *1*	0.51 *4*	2784.11	(4,5,6$^+$)	2289.40	(4$^+$)	
502.2 *1*	0.25 *2*	4265.60	(6$^+$)	3763.39	(5,6,7)	
519.1 *2*	0.10 *2*	4152.69	(6$^+$,7$^+$)	3633.41	(5,6,7)	
521.2 *2*	0.054 *8*	4284.70	(5$^+$,6$^+$)	3763.39	(5,6,7)	
551.1 *1*	0.51 *4*	4152.69	(6$^+$,7$^+$)	3601.66	(5,6$^+$)	
553.0 *1*	0.19 *2*	3173.08		2620.08	(5$^-$)	
558.2 *1*	0.11 *1*	4321.57	(5,6,7)	3763.39	(5,6,7)	
560.9 *1*	0.51 *4*	3125.24	(5$^+$,6$^+$)	2564.24	(5,6$^+$)	
571.0 *1*	57 *4*	2112.42	6$^+$	1541.35	4$^+$	Other: Eγ=571.1 *3*, Iγ=53 *2* (1982Ku15). Additional information 1.
579.4 *2*	0.038 *6*	4332.34	(7$^+$)	3752.77	(9$^+$)	
612.0 *1*	7.7 *5*	2724.48	(5,6$^+$)	2112.42	6$^+$	Other: Eγ=612.0 *3*, Iγ=6.5 *7* (1982Ku15).
620.9 *1*	0.46 *4*	3345.27	(5,6$^+$)	2724.48	(5,6$^+$)	
635.7 *1*	0.045 *6*	4388.61	(7$^+$)	3752.77	(9$^+$)	
654.1 *1*	0.34 *3*	4559.56	(5$^+$,6$^+$)	3905.44	(5,6,7)	
660.7 *1*	9.7 *7*	2773.15	8$^+$	2112.42	6$^+$	Other: Eγ=660.4 *10*, Iγ≈6 from coincidence data (1982Ku15).
678.5 *1*	91 *5*	1541.35	4$^+$	862.80	2$^+$	Other: Eγ=678.5 *3*, Iγ=85 *4* (1982Ku15).
686.9 *1*	0.19 *2*	3763.39	(5,6,7)	3076.50	(6$^+$,7)	
706.5 *1*	0.23 *3*	4559.56	(5$^+$,6$^+$)	3853.05	(5,6$^+$)	
715.8 *2*	0.11 *2*	3488.95	(6$^+$,7,8)	2773.15	8$^+$	
717.5 *1*	0.13 *1*	3125.24	(5$^+$,6$^+$)	2407.94	(4,5,6$^+$)	
719.5 *1*	0.35 *3*	3009.00	(5,6$^+$)	2289.40	(4$^+$)	
731.6 *1*	0.45 *4*	3951.10	(5,6,7)	3219.41	(6$^+$,7,8$^+$)	
732.6 *1*	0.11 *1*	4638.05	(5,6,7)	3905.44	(5,6,7)	
736.6 *1*	0.07 *1*	4081.74	(5,6,7)	3345.27	(5,6$^+$)	
740.2 *2*	0.08 *1*	4181.32	(5,6$^+$)	3440.75	(5,6$^+$)	
755.4 *1*	0.062 *8*	4388.61	(7$^+$)	3633.41	(5,6,7)	
756.8 *1*	0.25 *2*	3976.41	(6$^+$,7)	3219.41	(6$^+$,7,8$^+$)	
758.4 *1*	0.45 *4*	3378.49	(7$^-$)	2620.08	(5$^-$)	
767.2 *1*	0.13 *1*	4718.39	(6$^+$,7)	3951.10	(5,6,7)	
769.5 *2*	0.022 *3*	4522.39	(7$^+$)	3752.77	(9$^+$)	
781.0 *1*	1.6 *1*	3345.27	(5,6$^+$)	2564.24	(5,6$^+$)	
800.8 *1*	0.15 *1*	2767.05	(4$^+$)	1966.13	(2$^+$)	

Continued on next page (footnotes at end of table)

^{98}Ag ε decay (47.5 s) 2000Hu17,2001HuZZ (continued)

γ(^{98}Pd) (continued)

E_γ [†]	I_γ [†@]	E_i(level)	J_i^π	E_f	J_f^π	Comments
802.1 *1*	0.17 *1*	3091.52	(4,5,6$^+$)	2289.40	(4$^+$)	
807.5 *1*	0.47 *4*	3816.50	(5,6,7)	3009.00	(5,6$^+$)	
819.2 *1*	0.030 *3*	5207.81		4388.61	(7$^+$)	
829.0 *1*	0.36 *3*	3905.44	(5,6,7)	3076.50	(6$^+$,7)	
831.4 *2*	0.10 *1*	4050.61	(6$^+$,7)	3219.41	(6$^+$,7,8$^+$)	
835.7 *1*	0.18 *2*	3125.24	(5$^+$,6$^+$)	2289.40	(4$^+$)	
844.0 *1*	0.20 *2*	3969.39	(5,6$^+$)	3125.24	(5$^+$,6$^+$)	
862.8 *1*	100 *5*	862.80	2$^+$	0.0	0$^+$	Other: Eγ=863.1 *3*, Iγ=100 *4* (1982Ku15).
866.7 *1*	3.5 *3*	2407.94	(4,5,6$^+$)	1541.35	4$^+$	
870.8 *1*	0.20 *2*	4847.28	(6$^+$,7$^+$)	3976.41	(6$^+$,7)	
874.6 *1*	0.22 *2*	3951.10	(5,6,7)	3076.50	(6$^+$,7)	
876.7 *1*	0.24 *2*	4222.07	(5$^+$,6$^+$)	3345.27	(5,6$^+$)	
882.2 *2*	0.081 *9*	4847.28	(6$^+$,7$^+$)	3965.26	(5,6,7)	
896.6 *2*	0.18 *2*	3009.00	(5,6$^+$)	2112.42	6$^+$	
909.3 *2*	0.15 *2*	3021.72		2112.42	6$^+$	
912.7 *3*	0.052 *9*	4353.63	(5,6,7)	3440.75	(5,6$^+$)	
913.8 *2*	0.027 *7*	4515.37	(5,6,7)	3601.66	(5,6$^+$)	
933.4 *1*	0.82 *6*	4152.69	(6$^+$,7$^+$)	3219.41	(6$^+$,7,8$^+$)	
937.3 *3*	0.048 *8*	3345.27	(5,6$^+$)	2407.94	(4,5,6$^+$)	
939.3 *1*	0.11 *1*	4284.70	(5$^+$,6$^+$)	3345.27	(5,6$^+$)	
941.3 *2*	0.18 *2*	3349.27		2407.94	(4,5,6$^+$)	
951.3 *2*	0.07 *2*	5173.59	(5$^+$,6$^+$)	4222.07	(5$^+$,6$^+$)	
954.9 *2*	0.13 *2*	4718.39	(6$^+$,7)	3763.39	(5,6,7)	
956.1 *1*	0.16 *2*	3965.26	(5,6,7)	3009.00	(5,6$^+$)	
960.0 *2*	0.07 *1*	3969.39	(5,6$^+$)	3009.00	(5,6$^+$)	
963.9 *1*	1.7 *1*	3076.50	(6$^+$,7)	2112.42	6$^+$	Other: Eγ=964.0 *7*, Iγ=2.6 *3* (1982Ku15).
974.2 *1*	0.65 *5*	4050.61	(6$^+$,7)	3076.50	(6$^+$,7)	
976.5 *2*	0.10 *1*	4321.57	(5,6,7)	3345.27	(5,6$^+$)	
976.9 *2*	0.15 *2*	4417.54	(5,6$^+$)	3440.75	(5,6$^+$)	
979.4 *1*	0.22 *2*	3752.77	(9$^+$)	2773.15	8$^+$	
993.8 *2*	0.13 *2*	4847.28	(6$^+$,7$^+$)	3853.05	(5,6$^+$)	
997.1 *2*	0.054 *7*	4598.96	(5,6,7)	3601.66	(5,6$^+$)	
1005.2 *2*	0.14 *2*	3117.62		2112.42	6$^+$	
1012.7 *1*	3.1 *2*	3125.24	(5$^+$,6$^+$)	2112.42	6$^+$	Other: Eγ=1013.0 *7*, Iγ=3.0 *4* (1982Ku15).
1022.9 *1*	1.07 *8*	2564.24	(5,6$^+$)	1541.35	4$^+$	Other: Eγ=1023.5 *10*, Iγ=1.2 *3* (1982Ku15).
1023.4 *2*	0.09 *1*	4464.44	(5,6$^+$)	3440.75	(5,6$^+$)	
1027.3 *1*	0.29 *3*	4152.69	(6$^+$,7$^+$)	3125.24	(5$^+$,6$^+$)	
1032.7 *2*	0.056 *6*	3440.75	(5,6$^+$)	2407.94	(4,5,6$^+$)	
1037.3 *1*	1.8 *1*	3601.66	(5,6$^+$)	2564.24	(5,6$^+$)	Other: Eγ=1037.8 *7*, Iγ=1.8 *3* (1982Ku15, unplaced).
1055.7 *2*	0.09 *1*	3345.27	(5,6$^+$)	2289.40	(4$^+$)	
1056.1 *1*	0.19 *2*	4181.32	(5,6$^+$)	3125.24	(5$^+$,6$^+$)	
1059.9 *2*	0.057 *8*	3349.27		2289.40	(4$^+$)	
1069.0 *1*	0.16 *1*	3633.41	(5,6,7)	2564.24	(5,6$^+$)	
1074.8 *2*	0.043 *9*	5051.48	(6$^+$)	3976.41	(6$^+$,7)	
1075.6 *1*	3.0 *2*	2616.98	(5,6$^+$)	1541.35	4$^+$	Other: Eγ=1076.6 *10*, Iγ=3.0 *7* (1982Ku15, unplaced).
1076.1 *1*	0.24 *3*	4152.69	(6$^+$,7$^+$)	3076.50	(6$^+$,7)	Other: Eγ=1076.6 *10*, Iγ=3.0 *7* unplaced in 1982Ku15 could correspond mainly to 1075.6γ from 2617 level in 2001HuZZ.
1078.7 *1*	3.8 *3*	2620.08	(5$^-$)	1541.35	4$^+$	
1083.9 *1*	0.70 *6*	4847.28	(6$^+$,7$^+$)	3763.39	(5,6,7)	
1087.8 *4*	0.07 *2*	4847.28	(6$^+$,7$^+$)	3759.77	(5,6,7)	
1091.7 *2*	0.060 *9*	3708.86		2616.98	(5,6$^+$)	
1092.4 *2*	0.065 *8*	5173.59	(5$^+$,6$^+$)	4081.74	(5,6,7)	
1102.0 *1*	0.31 *3*	4321.57	(5,6,7)	3219.41	(6$^+$,7,8$^+$)	
1103.2 *1*	0.36 *6*	1966.13	(2$^+$)	862.80	2$^+$	

Continued on next page (footnotes at end of table)

^{98}Ag ε decay (47.5 s) 2000Hu17,2001HuZZ (continued)

γ(^{98}Pd) (continued)

E_γ †	I_γ †@	E_i(level)	J_i^π	E_f	J_f^π	Comments
1106.8 *1*	1.6 *1*	3219.41	(6$^+$,7,8$^+$)	2112.42	6$^+$	Other: possibly Eγ=1105.0 *7*, Iγ=1.0 *3*, unplaced in 1982Ku15.
1112.2 *1*	0.21 *2*	3401.61	(4$^+$)	2289.40	(4$^+$)	
1113.5 *3*	0.023 *5*	5487.11	(5$^+$,6$^+$)	4373.57		
1118.5 *2*	0.08 *1*	4559.56	(5$^+$,6$^+$)	3440.75	(5,6$^+$)	
1128.4 *1*	0.26 *2*	3853.05	(5,6$^+$)	2724.48	(5,6$^+$)	
1138.3 *2*	0.058 *9*	4691.44	(5,6$^+$)	3553.29	(4$^+$)	
1145.0 *2*	0.24 *2*	3553.29	(4$^+$)	2407.94	(4,5,6$^+$)	
1156.5 *1*	0.10 *1*	5062.00	(5,6,7)	3905.44	(5,6,7)	
1168.9 *2*	0.10 *1*	4388.61	(7$^+$)	3219.41	(6$^+$,7,8$^+$)	
1170.0 *2*	0.069 *9*	4515.37	(5,6,7)	3345.27	(5,6$^+$)	
1172.1 *2*	0.07 *1*	4181.32	(5,6$^+$)	3009.00	(5,6$^+$)	
1180.8 *1*	1.5 *1*	3905.44	(5,6,7)	2724.48	(5,6$^+$)	
1183.0 *1*	3.9 *3*	2724.48	(5,6$^+$)	1541.35	4$^+$	Other: Eγ=1183.0 *5*, Iγ=3.4 *3* (1982Ku15).
1189.3 *1*	0.45 *3*	4265.60	(6$^+$)	3076.50	(6$^+$,7)	
1189.6 *2*	0.07 *1*	4314.85		3125.24	(5$^+$,6$^+$)	
1195.8 *1*	0.51 *4*	3759.77	(5,6,7)	2564.24	(5,6$^+$)	
1197.7 *2*	0.051 *8*	4542.73	(6$^+$,7$^+$)	3345.27	(5,6$^+$)	
1201.3 *2*	0.06 *1*	4961.00	(5,6,7)	3759.77	(5,6,7)	
1203.5 *1*	0.22 *2*	3976.41	(6$^+$,7)	2773.15	8$^+$	
1208.3 *1*	0.39 *3*	4284.70	(5$^+$,6$^+$)	3076.50	(6$^+$,7)	
1211.6 *2*	0.053 *8*	5585.2		4373.57		
1213.0 *1*	0.54 *4*	4222.07	(5$^+$,6$^+$)	3009.00	(5,6$^+$)	
1214.2 *1*	0.16 *2*	4559.56	(5$^+$,6$^+$)	3345.27	(5,6$^+$)	
1228.2 *3*	0.05 *1*	4353.63	(5,6,7)	3125.24	(5$^+$,6$^+$)	
1236.2 *1*	0.30 *3*	3853.05	(5,6$^+$)	2616.98	(5,6$^+$)	
1241.1 *3*	0.09 *1*	3965.26	(5,6,7)	2724.48	(5,6$^+$)	
1244.7 *2*	0.14 *1*	3969.39	(5,6$^+$)	2724.48	(5,6$^+$)	
1245.5 *1*	0.20 *2*	4847.28	(6$^+$,7$^+$)	3601.66	(5,6$^+$)	
1258.5 *1*	0.045 *7*	4891.69	(6$^+$,7)	3633.41	(5,6,7)	
1263.7 *1*	0.11 *1*	3553.29	(4$^+$)	2289.40	(4$^+$)	
1272.0 *3*	0.04 *1*	5248.42	(5,6,7)	3976.41	(6$^+$,7)	
1273.7 *1*	0.13 *1*	3893.79		2620.08	(5$^-$)	
1275.7 *2*	0.11 *1*	4284.70	(5$^+$,6$^+$)	3009.00	(5,6$^+$)	
1277.3 *1*	0.15 *1*	4050.61	(6$^+$,7)	2773.15	8$^+$	
1288.9 *1*	0.35 *3*	3853.05	(5,6$^+$)	2564.24	(5,6$^+$)	
1290.0 *2*	0.10 *1*	4891.69	(6$^+$,7)	3601.66	(5,6$^+$)	
1293.3 *3*	0.038 *7*	3582.7		2289.40	(4$^+$)	Other: possibly Eγ=1292.0 *10*, Iγ=1.3 *3*, unplaced in 1982Ku15.
1299.1 *3*	0.020 *5*	5062.00	(5,6,7)	3763.39	(5,6,7)	
1311.1 *2*	0.12 *1*	3928.09		2616.98	(5,6$^+$)	
1312.3 *2*	0.08 *1*	3601.66	(5,6$^+$)	2289.40	(4$^+$)	
1320.6 *3*	0.15 *3*	5173.59	(5$^+$,6$^+$)	3853.05	(5,6$^+$)	
1328.3 *1*	2.1 *2*	3440.75	(5,6$^+$)	2112.42	6$^+$	Other: Eγ=1328.9 *10*, Iγ=2.4 *3* (1982Ku15).
1332.0 *2*	0.10 *1*	3739.95		2407.94	(4,5,6$^+$)	
1342.5 *2*	0.045 *7*	5716.1		4373.57		
1351.6 *2*	0.16 *2*	3759.77	(5,6,7)	2407.94	(4,5,6$^+$)	
1351.8# *2*	0.09 *1*	3969.39	(5,6$^+$)	2616.98	(5,6$^+$)	E_γ: level-energy difference=1352.40.
1371.8 *2*	0.09 *1*	3991.89		2620.08	(5$^-$)	
1372.8 *2*	0.09 *1*	4813.56		3440.75	(5,6$^+$)	
1379.6 *1*	1.4 *1*	4152.69	(6$^+$,7$^+$)	2773.15	8$^+$	
1381.8 *2*	0.062 *9*	3347.94	(4$^+$)	1966.13	(2$^+$)	
1388.0 *2*	0.15 *2*	4464.44	(5,6$^+$)	3076.50	(6$^+$,7)	
1400.9 *1*	0.23 *2*	3965.26	(5,6,7)	2564.24	(5,6$^+$)	
1406.7 *2*	0.07 *1*	4847.28	(6$^+$,7$^+$)	3440.75	(5,6$^+$)	

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^{98}Ag ε decay (47.5 s) 2000Hu17,2001HuZZ (continued)

γ(^{98}Pd) (continued)

E_γ †	I_γ †@	E_i(level)	J_i^π	E_f	J_f^π	Comments
1408.5 *2*	0.086 *9*	3816.50	(5,6,7)	2407.94	(4,5,6$^+$)	
1412.1 *1*	0.18 *2*	3976.41	(6$^+$,7)	2564.24	(5,6$^+$)	
1419.5 *1*	0.12 *1*	3708.86		2289.40	(4$^+$)	
1426.1 *2*	0.07 *1*	5507.50	(5$^+$,6$^+$,7$^+$)	4081.74	(5,6,7)	
1426.6 *1*	4.9 *4*	2289.40	(4$^+$)	862.80	2$^+$	Other: Eγ=1427.2 *5*, Iγ=4.5 *3* (1982Ku15).
1428.0 *2*	0.13 *1*	4152.69	(6$^+$,7$^+$)	2724.48	(5,6$^+$)	
1436.0 *2*	0.08 *1*	4445.02		3009.00	(5,6$^+$)	
1445.4 *2*	0.17 *2*	3853.05	(5,6$^+$)	2407.94	(4,5,6$^+$)	
1457.0 *2*	0.08 *1*	4181.32	(5,6$^+$)	2724.48	(5,6$^+$)	
1462.3 *2*	0.26 *3*	3003.70	(4$^+$)	1541.35	4$^+$	
1465.3 *2*	0.068 *9*	4541.82		3076.50	(6$^+$,7)	
1467.4# *1*	0.09 *1*	4559.56	(5$^+$,6$^+$)	3091.52	(4,5,6$^+$)	Eγ: level-energy difference=1468.03. Other: Eγ=1468.1 *7*, Iγ=2.6 *3* unplaced in 1982Ku15 could correspond to the 1467.5+1467.4 doublet in 2001HuZZ.
1467.5 *1*	3.1 *2*	3009.00	(5,6$^+$)	1541.35	4$^+$	Other: Eγ=1468.1 *7*, Iγ=2.6 *3* unplaced in 1982Ku15 could correspond to the 1467.5+1467.4 doublet in 2001HuZZ.
1473.4 *2*	0.07 *1*	5236.70	(5$^+$,6$^+$,7$^+$)	3763.39	(5,6,7)	
1473.9 *2*	0.07 *1*	4090.71	(5,6,7)	2616.98	(5,6$^+$)	
1474.8 *3*	0.048 *9*	5450.64	(5,6,7)	3976.41	(6$^+$,7)	
1477.2 *2*	0.08 *1*	5236.70	(5$^+$,6$^+$,7$^+$)	3759.77	(5,6,7)	
1482.9 *1*	0.15 *1*	4559.56	(5$^+$,6$^+$)	3076.50	(6$^+$,7)	
1489.3 *1*	0.36 *3*	3601.66	(5,6$^+$)	2112.42	6$^+$	
1491.6 *3*	0.049 *8*	4265.60	(6$^+$)	2773.15	8$^+$	
1497.6 *1*	0.23 *2*	4222.07	(5$^+$,6$^+$)	2724.48	(5,6$^+$)	
1505.0 *1*	0.18 *2*	4278.16	(6$^+$,7)	2773.15	8$^+$	
1505.6# *2*	0.06 *1*	5059.73	(5$^+$,6$^+$)	3553.29	(4$^+$)	Eγ: level-energy difference=1506.43.
1507.5 *2*	0.08 *1*	4124.66	(5,6$^+$)	2616.98	(5,6$^+$)	
1511.3 *3*	0.043 *9*	5487.11	(5$^+$,6$^+$)	3976.41	(6$^+$,7)	
1521.5# *1*	0.42 *3*	3633.41	(5,6,7)	2112.42	6$^+$	Eγ: level-energy difference=1520.98.
1522.4 *2*	0.063 *8*	4598.96	(5,6,7)	3076.50	(6$^+$,7)	Other: Eγ=1523.4 *10*, Iγ=1.1 *3* unplaced in 1982Ku15 could correspond to 1522.4+1521.5 in 2001HuZZ.
1526.5 *1*	0.13 *1*	4090.71	(5,6,7)	2564.24	(5,6$^+$)	
1532.2 *1*	0.12 *1*	4608.72	(5,6,7)	3076.50	(6$^+$,7)	
1538.6 *1*	0.16 *2*	4615.14	(5,6$^+$)	3076.50	(6$^+$,7)	
1541.1 *2*	0.10 *1*	4105.36		2564.24	(5,6$^+$)	
1547.5 *2*	0.25 *3*	4164.50	(5,6,7)	2616.98	(5,6$^+$)	
1548.0 *3*	0.15 *2*	4766.95	(6$^+$,7)	3219.41	(6$^+$,7,8$^+$)	
1549.7# *1*	0.64 *7*	3091.52	(4,5,6$^+$)	1541.35	4$^+$	Eγ: level-energy difference=1550.15.
1559.2 *1*	0.18 *2*	4332.34	(7$^+$)	2773.15	8$^+$	
1560.2 *1*	1.8 *1*	4284.70	(5$^+$,6$^+$)	2724.48	(5,6$^+$)	Other: 1561.3 *10*, Iγ=1.3 *3* (1982Ku15, unplaced).
1563.4 *2*	0.066 *9*	3853.05	(5,6$^+$)	2289.40	(4$^+$)	
1572.1 *3*	0.042 *7*	4136.4		2564.24	(5,6$^+$)	
1583.7 *1*	4.0 *3*	3125.24	(5$^+$,6$^+$)	1541.35	4$^+$	Other: Eγ=1584.6 *7*, Iγ=3.5 *3* (1982Ku15).
1588.4 *1*	0.23 *2*	4152.69	(6$^+$,7$^+$)	2564.24	(5,6$^+$)	
1603.5 *2*	0.051 *9*	5236.70	(5$^+$,6$^+$,7$^+$)	3633.41	(5,6,7)	
1619.6# *2*	0.09 *1*	5059.73	(5$^+$,6$^+$)	3440.75	(5,6$^+$)	Eγ: level-energy difference=1618.97.
1637.8 *1*	0.22 *2*	4410.96	(6$^+$,7)	2773.15	8$^+$	
1641.8 *1*	0.15 *1*	4718.39	(6$^+$,7)	3076.50	(6$^+$,7)	
1647.2 *1*	1.01 *8*	3759.77	(5,6,7)	2112.42	6$^+$	
1651.0 *1*	2.0 *1*	3763.39	(5,6,7)	2112.42	6$^+$	Other: Eγ=1651.8 *10*, Iγ=1.5 *3* (1982Ku15, unplaced).
1658.0 *1*	0.16 *1*	4222.07	(5$^+$,6$^+$)	2564.24	(5,6$^+$)	
1664.8 *2*	0.25 *3*	4284.70	(5$^+$,6$^+$)	2620.08	(5$^-$)	
1679.7 *1*	0.17 *2*	4756.22	(5,6,7)	3076.50	(6$^+$,7)	
1679.8 *2*	0.10 *1*	3969.39	(5,6$^+$)	2289.40	(4$^+$)	

Continued on next page (footnotes at end of table)

^{98}Ag ε decay (47.5 s) 2000Hu17,2001HuZZ (continued)

γ(^{98}Pd) (continued)

E_γ †	I_γ †@	E_i(level)	J_i^π	E_f	J_f^π	Comments
1682.4 *2*	0.053 *7*	4090.71	(5,6,7)	2407.94	(4,5,6$^+$)	
1685.8 *4*	0.040 *9*	5286.85	(5,6,7$^-$)	3601.66	(5,6$^+$)	
1688.1 *1*	0.33 *3*	4412.60	(5,6,7)	2724.48	(5,6$^+$)	
1690.2 *1*	0.14 *1*	4766.95	(6$^+$,7)	3076.50	(6$^+$,7)	
1701.3 *1*	1.4 *1*	4265.60	(6$^+$)	2564.24	(5,6$^+$)	Other: Eγ=1702.2 *10*, Iγ=1.1 *2* (1982Ku15, unplaced).
1721.8 *2*	0.11 *2*	4847.28	(6$^+$,7$^+$)	3125.24	(5$^+$,6$^+$)	
1727.0 *2*	0.12 *2*	5487.11	(5$^+$,6$^+$)	3759.77	(5,6,7)	
1739.8 *2*	0.12 *1*	4464.44	(5,6$^+$)	2724.48	(5,6$^+$)	
1740.4 *1*	0.39 *4*	3853.05	(5,6$^+$)	2112.42	6$^+$	
1746.6 *4*	0.043 *8*	5723.0		3976.41	(6$^+$,7)	
1752.2 *4*	0.04 *1*	4877.46	(5,6,7)	3125.24	(5$^+$,6$^+$)	
1757.4 *1*	0.50 *4*	4321.57	(5,6,7)	2564.24	(5,6$^+$)	
1769.5 *1*	0.61 *5*	4542.73	(6$^+$,7$^+$)	2773.15	8$^+$	
1770.6 *1*	0.28 *2*	4847.28	(6$^+$,7$^+$)	3076.50	(6$^+$,7)	
1773.3 *4*	0.041 *7*	5536.38		3763.39	(5,6,7)	
1775.9 *2*	0.14 *1*	4500.51	(5,6$^+$)	2724.48	(5,6$^+$)	
1789.8 *2*	0.087 *9*	4353.63	(5,6,7)	2564.24	(5,6$^+$)	
1803.8 *1*	1.16 *9*	3345.27	(5,6$^+$)	1541.35	4$^+$	
1805.9 *3*	0.07 *1*	4931.2		3125.24	(5$^+$,6$^+$)	
1809.3 *1*	0.16 *1*	4373.57		2564.24	(5,6$^+$)	
1814.2 *2*	0.11 *1*	4222.07	(5$^+$,6$^+$)	2407.94	(4,5,6$^+$)	
1818.3 *3*	0.08 *1*	4542.73	(6$^+$,7$^+$)	2724.48	(5,6$^+$)	
1827.0 *4*	0.040 *9*	4918.37	(5,6$^+$)	3091.52	(4,5,6$^+$)	
1831.7 *2*	0.07 *1*	5051.48	(6$^+$)	3219.41	(6$^+$,7,8$^+$)	
1835.6 *3*	0.055 *8*	4124.66	(5,6$^+$)	2289.40	(4$^+$)	
1853.1 *1*	0.48 *9*	3965.26	(5,6,7)	2112.42	6$^+$	
1853.3 *1*	0.58 *4*	4417.54	(5,6$^+$)	2564.24	(5,6$^+$)	
1856.8 *3*	0.047 *9*	5833.84	(5$^+$,6$^+$,7$^+$)	3976.41	(6$^+$,7)	
1863.9 *1*	0.84 *6*	3976.41	(6$^+$,7)	2112.42	6$^+$	
1874.7 *2*	0.13 *1*	4598.96	(5,6,7)	2724.48	(5,6$^+$)	
1891.4 *2*	0.23 *2*	5236.70	(5$^+$,6$^+$,7$^+$)	3345.27	(5,6$^+$)	
1891.9 *5*	0.022 *6*	4181.32	(5,6$^+$)	2289.40	(4$^+$)	
1899.4 *1*	1.8 *1*	3440.75	(5,6$^+$)	1541.35	4$^+$	Other: Eγ=1901.9 *10*, Iγ=1.9 *3* (1982Ku15).
1902.6 *3*	0.09 *2*	5304.07	(5$^+$,6$^+$)	3401.61	(4$^+$)	
1904.7 *2*	0.30 *3*	2767.05	(4$^+$)	862.80	2$^+$	
1924.2 *3*	0.049 *8*	5269.14		3345.27	(5,6$^+$)	
1932.6 *2*	0.10 *1*	4222.07	(5$^+$,6$^+$)	2289.40	(4$^+$)	
1934.4 *2*	0.14 *2*	5059.73	(5$^+$,6$^+$)	3125.24	(5$^+$,6$^+$)	
1937.5 *3*	0.053 *8*	5282.96		3345.27	(5,6$^+$)	
1943.1 *2*	0.10 *1*	4559.56	(5$^+$,6$^+$)	2616.98	(5,6$^+$)	
1945.4 *1*	0.29 *2*	4718.39	(6$^+$,7)	2773.15	8$^+$	
1945.6 *1*	0.19 *2*	4353.63	(5,6,7)	2407.94	(4,5,6$^+$)	
1951.8 *3*	0.044 *8*	4961.00	(5,6,7)	3009.00	(5,6$^+$)	
1962.1 *4*	0.03 *1*	5181.89	(5,6,7)	3219.41	(6$^+$,7,8$^+$)	
1966.8 *3*	0.063 *9*	4691.44	(5,6$^+$)	2724.48	(5,6$^+$)	
1968.8 *3*	0.029 *8*	5059.73	(5$^+$,6$^+$)	3091.52	(4,5,6$^+$)	
1969.4 *1*	0.32 *3*	4081.74	(5,6,7)	2112.42	6$^+$	
1973.5 *3*	0.032 *7*	5575.2		3601.66	(5,6$^+$)	
1978.4 *2*	0.13 *1*	4542.73	(6$^+$,7$^+$)	2564.24	(5,6$^+$)	
1993.8 *2*	0.09 *1*	4766.95	(6$^+$,7)	2773.15	8$^+$	
1994.9# *1*	0.36 *3*	4559.56	(5$^+$,6$^+$)	2564.24	(5,6$^+$)	E_γ: level-energy difference=1995.29.
2000.6 *3*	0.059 *9*	5009.48	(5,6$^+$)	3009.00	(5,6$^+$)	
2002.4 *2*	0.061 *9*	4291.82		2289.40	(4$^+$)	
2040.3 *1*	0.70 *5*	4152.69	(6$^+$,7$^+$)	2112.42	6$^+$	

Continued on next page (footnotes at end of table)

^{98}Ag ε decay (47.5 s) 2000Hu17,2001HuZZ (continued)

γ(^{98}Pd) (continued)

E_γ †	I_γ †@	E_i(level)	J_i^π	E_f	J_f^π	Mult.	Comments
2043.1& *3*	0.048 *8*	4332.34	(7$^+$)	2289.40	(4$^+$)	[M3]	E_γ: implied mult=[M3] makes the placement of this γ questionable.
2050.9 *2*	0.08 *1*	5059.73	(5$^+$,6$^+$)	3009.00	(5,6$^+$)		
2051.0 *3*	0.050 *7*	4615.14	(5,6$^+$)	2564.24	(5,6$^+$)		
2054.1 *4*	0.031 *7*	5817.5		3763.39	(5,6,7)		
2060.3 *2*	0.28 *3*	3601.66	(5,6$^+$)	1541.35	4$^+$		
2063.6 *2*	0.031 *9*	5282.96		3219.41	(6$^+$,7,8$^+$)		
2069.2 *2*	0.20 *2*	4181.32	(5,6$^+$)	2112.42	6$^+$		
2073.8 *1*	0.18 *2*	4638.05	(5,6,7)	2564.24	(5,6$^+$)		
2074.2 *1*	0.68 *5*	4847.28	(6$^+$,7$^+$)	2773.15	8$^+$		
2074.7 *4*	0.04 *1*	5833.84	(5$^+$,6$^+$,7$^+$)	3759.77	(5,6,7)		
2097.0 *2*	0.17 *2*	5173.59	(5$^+$,6$^+$)	3076.50	(6$^+$,7)		
2109.5 *1*	1.15 *9*	4222.07	(5$^+$,6$^+$)	2112.42	6$^+$		
2118.5 *2*	0.12 *1*	4891.69	(6$^+$,7)	2773.15	8$^+$		
2122.8 *2*	0.18 *2*	4847.28	(6$^+$,7$^+$)	2724.48	(5,6$^+$)		
2127.7 *3*	0.09 *1*	4417.54	(5,6$^+$)	2289.40	(4$^+$)		
2140.8 *4*	0.10 *2*	3003.70	(4$^+$)	862.80	2$^+$		
2152.6# *2*	0.09 *1*	4559.56	(5$^+$,6$^+$)	2407.94	(4,5,6$^+$)		E_γ: level-energy difference=2151.60.
2153.1 *1*	0.86 *6*	4265.60	(6$^+$)	2112.42	6$^+$		
2162.1 *3*	0.042 *9*	5507.50	(5$^+$,6$^+$,7$^+$)	3345.27	(5,6$^+$)		
2164.7 *3*	0.060 *9*	5173.59	(5$^+$,6$^+$)	3009.00	(5,6$^+$)		
2174.8 *2*	0.10 *1*	4464.44	(5,6$^+$)	2289.40	(4$^+$)		
2177.6 *3*	0.09 *2*	5937.67	(5$^+$,6$^+$,7$^+$)	3759.77	(5,6,7)		
2191.0 *3*	0.044 *9*	5536.38		3345.27	(5,6$^+$)		
2193.8 *3*	0.060 *9*	4918.37	(5,6$^+$)	2724.48	(5,6$^+$)		
2200.5 *4*	0.045 *8*	5964.00	(6$^+$,7$^+$)	3763.39	(5,6,7)		
2203.4# *2*	0.08 *1*	4766.95	(6$^+$,7)	2564.24	(5,6$^+$)		E_γ: level-energy difference=2202.68.
2210.1 *2*	0.12 *1*	5286.85	(5,6,7$^-$)	3076.50	(6$^+$,7)		
2211.2 *2*	0.11 *1*	4500.51	(5,6$^+$)	2289.40	(4$^+$)		
2212.7 *2*	0.08 *1*	5304.07	(5$^+$,6$^+$)	3091.52	(4,5,6$^+$)		
2228.6 *4*	0.07 *1*	4845.6		2616.98	(5,6$^+$)		
2236.0 *7*	0.014 *4*	5999.69	(5$^+$,6$^+$)	3763.39	(5,6,7)		
2257.0 *3*	0.046 *8*	4664.95		2407.94	(4,5,6$^+$)		
2270.8# *1*	0.28 *3*	4559.56	(5$^+$,6$^+$)	2289.40	(4$^+$)		E_γ: level-energy difference=2270.13.
2278.0 *3*	0.06 *1*	5286.85	(5,6,7$^-$)	3009.00	(5,6$^+$)		
2278.3 *1*	0.36 *3*	5051.48	(6$^+$)	2773.15	8$^+$		
2283.1 *1*	0.31 *3*	4847.28	(6$^+$,7$^+$)	2564.24	(5,6$^+$)		
2293.7 *1*	0.22 *2*	4406.14	(5,6,7)	2112.42	6$^+$		
2311.6 *2*	0.40 *4*	3853.05	(5,6$^+$)	1541.35	4$^+$		
2325.4 *4*	0.023 *6*	5416.97	(5,6,7)	3091.52	(4,5,6$^+$)		
2326.1 *8*	0.018 *6*	4615.14	(5,6$^+$)	2289.40	(4$^+$)		
2327.4 *1*	0.18 *2*	4891.69	(6$^+$,7)	2564.24	(5,6$^+$)		
2327.4 *2*	0.09 *1*	5051.48	(6$^+$)	2724.48	(5,6$^+$)		
2352.0 *3*	0.05 *1*	5477.44	(5$^+$,6$^+$)	3125.24	(5$^+$,6$^+$)		
2352.3 *2*	0.17 *2*	4464.44	(5,6$^+$)	2112.42	6$^+$		
2362.0 *3*	0.06 *1*	5487.11	(5$^+$,6$^+$)	3125.24	(5$^+$,6$^+$)		
2365.5 *3*	0.045 *7*	4929.8		2564.24	(5,6$^+$)		
2375.5 *3*	0.056 *9*	4664.95		2289.40	(4$^+$)		
2401.8 *3*	0.07 *1*	4691.44	(5,6$^+$)	2289.40	(4$^+$)		
2403.0 *5*	0.06 *3*	4515.37	(5,6,7)	2112.42	6$^+$		
2410.2 *3*	0.08 *1*	4522.39	(7$^+$)	2112.42	6$^+$		
2415.9 *3*	0.047 *9*	5507.50	(5$^+$,6$^+$,7$^+$)	3091.52	(4,5,6$^+$)		
2428.6# *1*	0.48 *7*	3969.39	(5,6$^+$)	1541.35	4$^+$		E_γ: level-energy difference=2428.01.
2430.3 *1*	0.34 *3*	4542.73	(6$^+$,7$^+$)	2112.42	6$^+$		

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^{98}Ag ε decay (47.5 s) 2000Hu17,2001HuZZ (continued)

γ(^{98}Pd) (continued)

E_γ †	I_γ †@	E_i(level)	J_i^π	E_f	J_f^π	Comments
2441.3 *3*	0.038 *7*	5450.64	(5,6,7)	3009.00	(5,6$^+$)	
2442.6 *2*	0.07 *1*	5059.73	(5$^+$,6$^+$)	2616.98	(5,6$^+$)	
2445.2 *2*	0.065 *8*	5009.48	(5,6$^+$)	2564.24	(5,6$^+$)	
2447.6 *2*	0.12 *3*	4559.56	(5$^+$,6$^+$)	2112.42	6$^+$	
2449.0 *2*	0.10 *1*	5173.59	(5$^+$,6$^+$)	2724.48	(5,6$^+$)	
2469.2 *3*	0.040 *8*	5477.44	(5$^+$,6$^+$)	3009.00	(5,6$^+$)	
2486.5 *3*	0.04 *2*	4598.96	(5,6,7)	2112.42	6$^+$	
2487.6 *2*	0.077 *9*	5051.48	(6$^+$)	2564.24	(5,6$^+$)	
2498.9 *4*	0.19 *3*	4611.3	(5,6,7)	2112.42	6$^+$	
2505.0 *4*	0.19 *3*	5508.9	(5,6$^+$)	3003.70	(4$^+$)	
2511.9 *2*	0.13 *1*	5236.70	(5$^+$,6$^+$,7$^+$)	2724.48	(5,6$^+$)	
2539.2 *4*	0.30 *5*	3401.61	(4$^+$)	862.80	2$^+$	
2541.0 *2*	0.12 *1*	5314.23	(6$^+$,7)	2773.15	8$^+$	
2550.8 *3*	0.06 *3*	4092.2	(4,5,6$^+$)	1541.35	4$^+$	
2566.7 *2*	0.086 *9*	5131.13	(5,6$^+$)	2564.24	(5,6$^+$)	
2579.2 *2*	0.11 *1*	5304.07	(5$^+$,6$^+$)	2724.48	(5,6$^+$)	
2592.6 *2*	0.06 *1*	5937.67	(5$^+$,6$^+$,7$^+$)	3345.27	(5,6$^+$)	
2598.6 *2*	0.09 *1*	4888.03		2289.40	(4$^+$)	
2609.1 *2*	0.16 *2*	5173.59	(5$^+$,6$^+$)	2564.24	(5,6$^+$)	
2617.7 *2*	0.083 *9*	5181.89	(5,6,7)	2564.24	(5,6$^+$)	
2626.8 *3*	0.05 *1*	5717.88	(5$^+$,6$^+$)	3091.52	(4,5,6$^+$)	
2628.9 *3*	0.052 *9*	4918.37	(5,6$^+$)	2289.40	(4$^+$)	
2639.9 *3*	0.19 *2*	4181.32	(5,6$^+$)	1541.35	4$^+$	
2666.4 *5*	0.026 *7*	5286.85	(5,6,7$^-$)	2620.08	(5$^-$)	
2671.7 *3*	0.063 *8*	5236.70	(5$^+$,6$^+$,7$^+$)	2564.24	(5,6$^+$)	
2684.2 *2*	0.11 *1*	5248.42	(5,6,7)	2564.24	(5,6$^+$)	
2690.5 *3*	0.14 *2*	3553.29	(4$^+$)	862.80	2$^+$	
2704.5 *3*	0.042 *6*	5269.14		2564.24	(5,6$^+$)	
2721.5 *4*	0.041 *8*	5505.7		2784.11	(4,5,6$^+$)	
2723.9 *4*	0.09 *2*	4265.60	(6$^+$)	1541.35	4$^+$	
2735.0 *1*	1.19 *9*	4847.28	(6$^+$,7$^+$)	2112.42	6$^+$	
2759.0 *3*	0.05 *1*	5883.90	(5$^+$,6$^+$)	3125.24	(5$^+$,6$^+$)	
2765.0 *2*	0.16 *2*	4877.46	(5,6,7)	2112.42	6$^+$	
2770.1 *2*	0.21 *2*	5059.73	(5$^+$,6$^+$)	2289.40	(4$^+$)	
2778.4# *2*	0.15 *2*	4891.69	(6$^+$,7)	2112.42	6$^+$	E_γ: level-energy difference=2779.23.
2788.2 *4*	0.039 *6*	5352.5		2564.24	(5,6$^+$)	
2798.6 *2*	0.12 *1*	5206.56	(5$^+$,6$^+$)	2407.94	(4,5,6$^+$)	
2804.8 *3*	0.10 *1*	5212.8		2407.94	(4,5,6$^+$)	
2811.7 *4*	0.051 *8*	5536.38		2724.48	(5,6$^+$)	
2842.4 *5*	0.029 *7*	5131.13	(5,6$^+$)	2289.40	(4$^+$)	
2842.8 *4*	0.037 *9*	5852.37	(5$^+$,6$^+$)	3009.00	(5,6$^+$)	
2886.1 *3*	0.062 *8*	5450.64	(5,6,7)	2564.24	(5,6$^+$)	
2889.0 *4*	0.042 *9*	5508.9	(5,6$^+$)	2620.08	(5$^-$)	
2895.6 *6*	0.025 *6*	5619.8		2724.48	(5,6$^+$)	
2896.1 *3*	0.08 *2*	5304.07	(5$^+$,6$^+$)	2407.94	(4,5,6$^+$)	
2896.8 *3*	0.02 *2*	5009.48	(5,6$^+$)	2112.42	6$^+$	
2922.6 *2*	0.09 *1*	5487.11	(5$^+$,6$^+$)	2564.24	(5,6$^+$)	
2923.3 *2*	0.18 *3*	4464.44	(5,6$^+$)	1541.35	4$^+$	
2938.9 *3*	0.09 *1*	5051.48	(6$^+$)	2112.42	6$^+$	
2948.0 *3*	0.11 *1*	5059.73	(5$^+$,6$^+$)	2112.42	6$^+$	
2956.4 *4*	0.039 *8*	5576.7		2620.08	(5$^-$)	
3012.5 *3*	0.061 *8*	5576.7		2564.24	(5,6$^+$)	
3014.5 *3*	0.07 *1*	5304.07	(5$^+$,6$^+$)	2289.40	(4$^+$)	
3018.7 *2*	0.10 *1*	5131.13	(5,6$^+$)	2112.42	6$^+$	
3018.8# *2*	0.21 *3*	4559.56	(5$^+$,6$^+$)	1541.35	4$^+$	E_γ: level-energy difference=3018.15.

Continued on next page (footnotes at end of table)

^{98}Ag ε decay (47.5 s) 2000Hu17,2001HuZZ (continued)

γ(^{98}Pd) (continued)

E_γ †	I_γ †@	E_i(level)	J_i^π	E_f	J_f^π
3055.3 *4*	0.035 *6*	5619.8		2564.24	(5,6$^+$)
3061.1 *1*	0.75 *6*	5173.59	(5$^+$,6$^+$)	2112.42	6$^+$
3094.1 *2*	0.15 *2*	5206.56	(5$^+$,6$^+$)	2112.42	6$^+$
3099.1 *3*	0.06 *1*	5507.50	(5$^+$,6$^+$,7$^+$)	2407.94	(4,5,6$^+$)
3135.9 *2*	0.14 *2*	5248.42	(5,6,7)	2112.42	6$^+$
3167.2 *4*	0.063 *9*	5575.2		2407.94	(4,5,6$^+$)
3174.6 *5*	0.08 *2*	5286.85	(5,6,7$^-$)	2112.42	6$^+$
3190.8 *1*	0.20 *2*	5964.00	(6$^+$,7$^+$)	2773.15	8$^+$
3201.8 *2*	0.12 *1*	5314.23	(6$^+$,7)	2112.42	6$^+$
3231.9 *5*	0.048 *9*	5852.37	(5$^+$,6$^+$)	2620.08	(5$^-$)
3262.9 *5*	0.04 *1*	6047.40	(5$^+$,6$^+$)	2784.11	(4,5,6$^+$)
3266.2 *3*	0.08 *1*	5883.90	(5$^+$,6$^+$)	2616.98	(5,6$^+$)
3269.6 *2*	0.068 *9*	5833.84	(5$^+$,6$^+$,7$^+$)	2564.24	(5,6$^+$)
3287.3 *2*	0.19 *2*	5399.77	(5,6,7)	2112.42	6$^+$
3304.5 *2*	0.12 *1*	5416.97	(5,6,7)	2112.42	6$^+$
3309.6 *2*	0.18 *2*	5717.88	(5$^+$,6$^+$)	2407.94	(4,5,6$^+$)
3319.8 *2*	0.071 *9*	5883.90	(5$^+$,6$^+$)	2564.24	(5,6$^+$)
3338.1 *4*	0.07 *1*	5450.64	(5,6,7)	2112.42	6$^+$
3351.3 *3*	0.07 *1*	5971.4		2620.08	(5$^-$)
3364.5 *2*	0.12 *1*	5477.44	(5$^+$,6$^+$)	2112.42	6$^+$
3373.5 *3*	0.042 *6*	5937.67	(5$^+$,6$^+$,7$^+$)	2564.24	(5,6$^+$)
3374.5 *2*	0.21 *2*	5487.11	(5$^+$,6$^+$)	2112.42	6$^+$
3394.8 *3*	0.10 *1*	5507.50	(5$^+$,6$^+$,7$^+$)	2112.42	6$^+$
3417.1 *5*	0.027 *7*	5706.6		2289.40	(4$^+$)
3426.9 *3*	0.038 *7*	6200.1		2773.15	8$^+$
3444.6 *3*	0.057 *8*	5852.37	(5$^+$,6$^+$)	2407.94	(4,5,6$^+$)
3468.1 *2*	0.33 *3*	5009.48	(5,6$^+$)	1541.35	4$^+$
3470.9 *6*	0.05 *1*	5583.4		2112.42	6$^+$
3476.0 *4*	0.051 *8*	5883.90	(5$^+$,6$^+$)	2407.94	(4,5,6$^+$)
3476.6 *3*	0.02 *1*	6097.18		2620.08	(5$^-$)
3483.9 *4*	0.020 *5*	6047.40	(5$^+$,6$^+$)	2564.24	(5,6$^+$)
3509.7 *3*	0.058 *7*	5051.48	(6$^+$)	1541.35	4$^+$
3518.1 *2*	0.101 *8*	5059.73	(5$^+$,6$^+$)	1541.35	4$^+$
3520.8 *4*	0.017 *4*	6085.1		2564.24	(5,6$^+$)
3533.3 *3*	0.029 *6*	6097.18		2564.24	(5,6$^+$)
3563.5 *7*	0.020 *6*	5852.37	(5$^+$,6$^+$)	2289.40	(4$^+$)
3566.8 *4*	0.035 *7*	6187.0		2620.08	(5$^-$)
3593.2 *7*	0.019 *6*	5883.90	(5$^+$,6$^+$)	2289.40	(4$^+$)
3632.2 *2*	0.35 *3*	5173.59	(5$^+$,6$^+$)	1541.35	4$^+$
3639.2 *4*	0.07 *1*	6047.40	(5$^+$,6$^+$)	2407.94	(4,5,6$^+$)
3643.6 *2*	0.17 *2*	5756.09	(5$^+$,6$^+$,7$^+$)	2112.42	6$^+$
3665.1 *2*	0.23 *3*	5206.56	(5$^+$,6$^+$)	1541.35	4$^+$
3666.5 *3*	0.07 *1*	5779.0		2112.42	6$^+$
3702.5 *2*	0.14 *2*	5814.98	(5$^+$,6$^+$)	2112.42	6$^+$
3721.4 *2*	0.12 *1*	5833.84	(5$^+$,6$^+$,7$^+$)	2112.42	6$^+$
3732.8 *5*	0.044 *8*	5845.3		2112.42	6$^+$
3757.5 *4*	0.046 *9*	6047.40	(5$^+$,6$^+$)	2289.40	(4$^+$)
3762.8 *2*	0.16 *2*	5304.07	(5$^+$,6$^+$)	1541.35	4$^+$
3771.4 *5*	0.027 *6*	5883.90	(5$^+$,6$^+$)	2112.42	6$^+$
3790.5 *7*	0.04 *1*	5903.0		2112.42	6$^+$
3822.5 *7*	0.033 *7*	6230.5		2407.94	(4,5,6$^+$)
3825.0 *2*	0.10 *1*	5937.67	(5$^+$,6$^+$,7$^+$)	2112.42	6$^+$
3870.1 *2*	0.08 *1*	5982.56	(5,6$^+$)	2112.42	6$^+$
3887.2 *2*	0.08 *1*	5999.69	(5$^+$,6$^+$)	2112.42	6$^+$
3894.9 *5*	0.034 *6*	5436.3	(5,6$^+$)	1541.35	4$^+$
3936.2 *2*	0.31 *3*	5477.44	(5$^+$,6$^+$)	1541.35	4$^+$

Continued on next page (footnotes at end of table)

^{98}Ag ε decay (47.5 s) 2000Hu17,2001HuZZ (continued)

γ(^{98}Pd) (continued)

E_γ †	I_γ †@	E_i(level)	J_i^π	E_f	J_f^π	E_γ †	I_γ †@	E_i(level)	J_i^π	E_f	J_f^π
3946.0 *2*	0.14 *2*	5487.11	$(5^+,6^+)$	1541.35	4^+	4311.0 *3*	0.07 *1*	5852.37	$(5^+,6^+)$	1541.35	4^+
3949.6 *4*	0.032 *6*	6062.1		2112.42	6^+	4337.6 *6*	0.028 *7*	6450.1		2112.42	6^+
4030.7 *4*	0.039 *7*	6143.2		2112.42	6^+	4410.2 *6*	0.025 *5*	5951.7		1541.35	4^+
4032.5 *4*	0.03 *1*	5573.9	$(5,6^+)$	1541.35	4^+	4440.8 *6*	0.023 *5*	5982.56	$(5,6^+)$	1541.35	4^+
4086.7 *6*	0.039 *8*	5628.1		1541.35	4^+	4458.4 *6*	0.022 *5*	5999.69	$(5^+,6^+)$	1541.35	4^+
4150.3 *3*	0.07 *1*	6262.8	$(5^+,6^+)$	2112.42	6^+	4567.0 *6*	0.022 *6*	6108.5		1541.35	4^+
4167.2 *4*	0.06 *1*	5708.6		1541.35	4^+	4599.6 *4*	0.036 *8*	6141.1		1541.35	4^+
4176.5 *2*	0.15 *2*	5717.88	$(5^+,6^+)$	1541.35	4^+	4721.0 *7*	0.019 *6*	6262.8	$(5^+,6^+)$	1541.35	4^+
4203.5 *3*	0.049 *8*	6316.0		2112.42	6^+	4808.9 *5*	0.031 *6*	6350.4		1541.35	4^+
4273.5 *4*	0.063 *9*	5814.98	$(5^+,6^+)$	1541.35	4^+	4882.7 *6*	0.020 *5*	6424.2		1541.35	4^+

† From 2001HuZZ. See experimental details in 2000Hu17.

‡ 1982Ku15 misassigned this transition from 3441 level.

Poor fit. Energy from least-squares adjustment differs by 0.3 to 1.0 keV from the quoted Eγ. Fitted energy is given under comments.

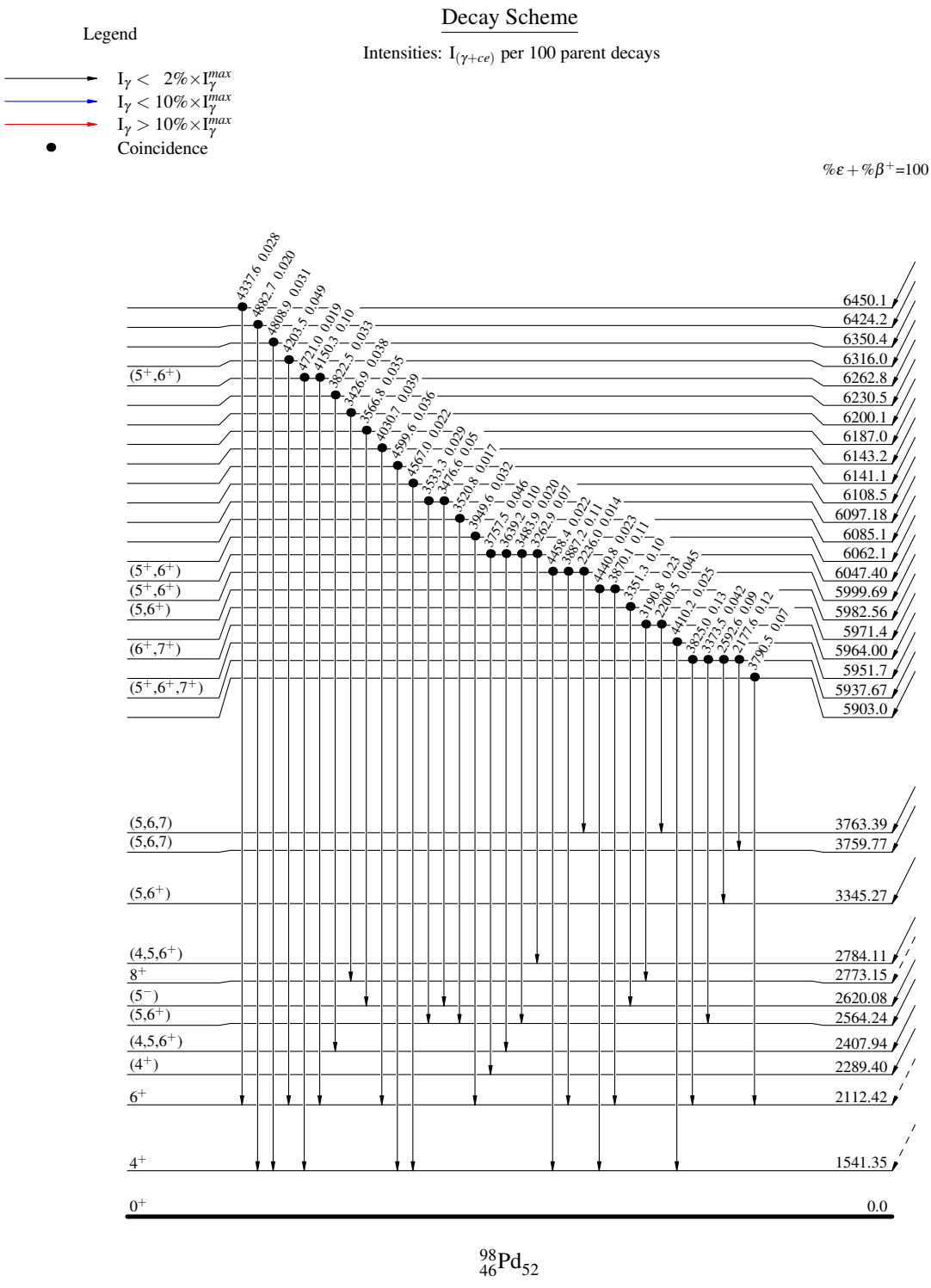
@ Absolute intensity per 100 decays.

& Placement of transition in the level scheme is uncertain.

^{98}Ag ε decay (47.5 s) 2000Hu17,2001HuZZ

Decay Scheme

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

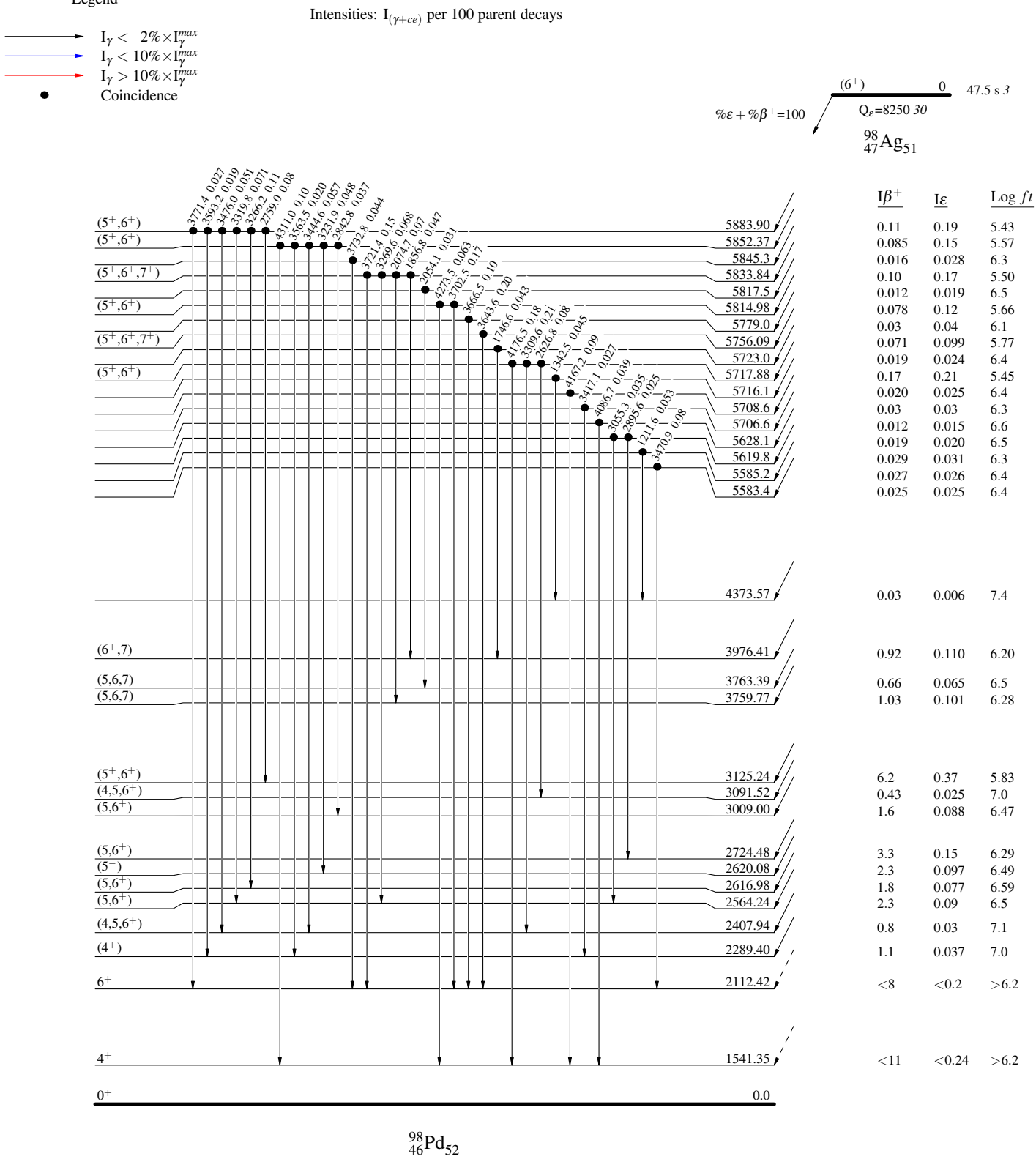


	Iβ+	Iε	Log *ft*
6450.1	0.0022	0.026	6.1
6424.2	0.0017	0.018	6.2
6350.4	0.0035	0.027	6.1
6316.0	0.0063	0.043	5.9
6262.8	0.01	0.08	5.68
6230.5	0.0055	0.028	6.1
6200.1	0.0069	0.031	6.1
6187.0	0.0066	0.028	6.2
6143.2	0.0082	0.031	6.1
6141.1	0.0076	0.028	6.2
6108.5	0.0050	0.017	6.4
6097.18	0.01	0.04	6.1
6085.1	0.0041	0.013	6.5
6062.1	0.0081	0.024	6.3
6047.40	0.047	0.13	5.53
5999.69	0.034	0.086	5.74
5982.56	0.030	0.070	5.84
5971.4	0.02	0.05	6.0
5964.00	0.076	0.17	5.45
5951.7	0.0078	0.017	6.5
5937.67	0.093	0.20	5.41
5903.0	0.01	0.03	6.3
3763.39	0.66	0.065	6.5
3759.77	1.03	0.101	6.28
3345.27	2.0	0.14	6.22
2784.11	0.41	0.019	7.17
2773.15	1.1	0.05	6.7
2620.08	2.3	0.097	6.49
2564.24	2.3	0.09	6.5
2407.94	0.8	0.03	7.1
2289.40	1.1	0.037	7.0
2112.42	<8	<0.2	>6.2
1541.35	<11	<0.24	>6.2

^{98}Ag ε decay (47.5 s) 2000Hu17,2001HuZZ

Decay Scheme (continued)

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



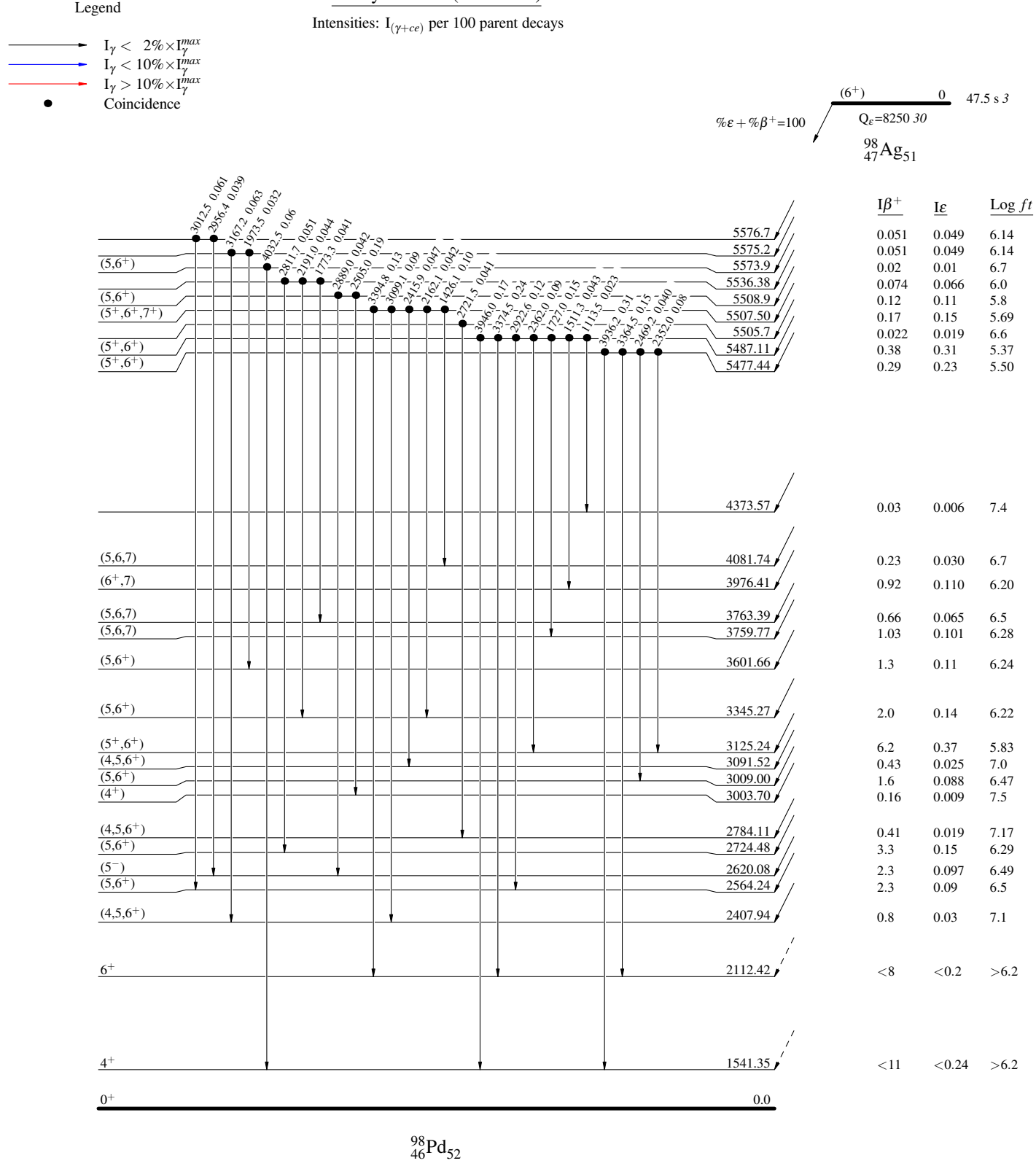
	Iβ+	Iε	Log *ft*
5883.90	0.11	0.19	5.43
5852.37	0.085	0.15	5.57
5845.3	0.016	0.028	6.3
5833.84	0.10	0.17	5.50
5817.5	0.012	0.019	6.5
5814.98	0.078	0.12	5.66
5779.0	0.03	0.04	6.1
5756.09	0.071	0.099	5.77
5723.0	0.019	0.024	6.4
5717.88	0.17	0.21	5.45
5716.1	0.020	0.025	6.4
5708.6	0.03	0.03	6.3
5706.6	0.012	0.015	6.6
5628.1	0.019	0.020	6.5
5619.8	0.029	0.031	6.3
5585.2	0.027	0.026	6.4
5583.4	0.025	0.025	6.4
4373.57	0.03	0.006	7.4
3976.41	0.92	0.110	6.20
3763.39	0.66	0.065	6.5
3759.77	1.03	0.101	6.28
3125.24	6.2	0.37	5.83
3091.52	0.43	0.025	7.0
3009.00	1.6	0.088	6.47
2724.48	3.3	0.15	6.29
2620.08	2.3	0.097	6.49
2616.98	1.8	0.077	6.59
2564.24	2.3	0.09	6.5
2407.94	0.8	0.03	7.1
2289.40	1.1	0.037	7.0
2112.42	<8	<0.2	>6.2
1541.35	<11	<0.24	>6.2

$^{98}_{46}Pd_{52}$

^{98}Ag ε decay (47.5 s) 2000Hu17,2001HuZZ

Decay Scheme (continued)

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

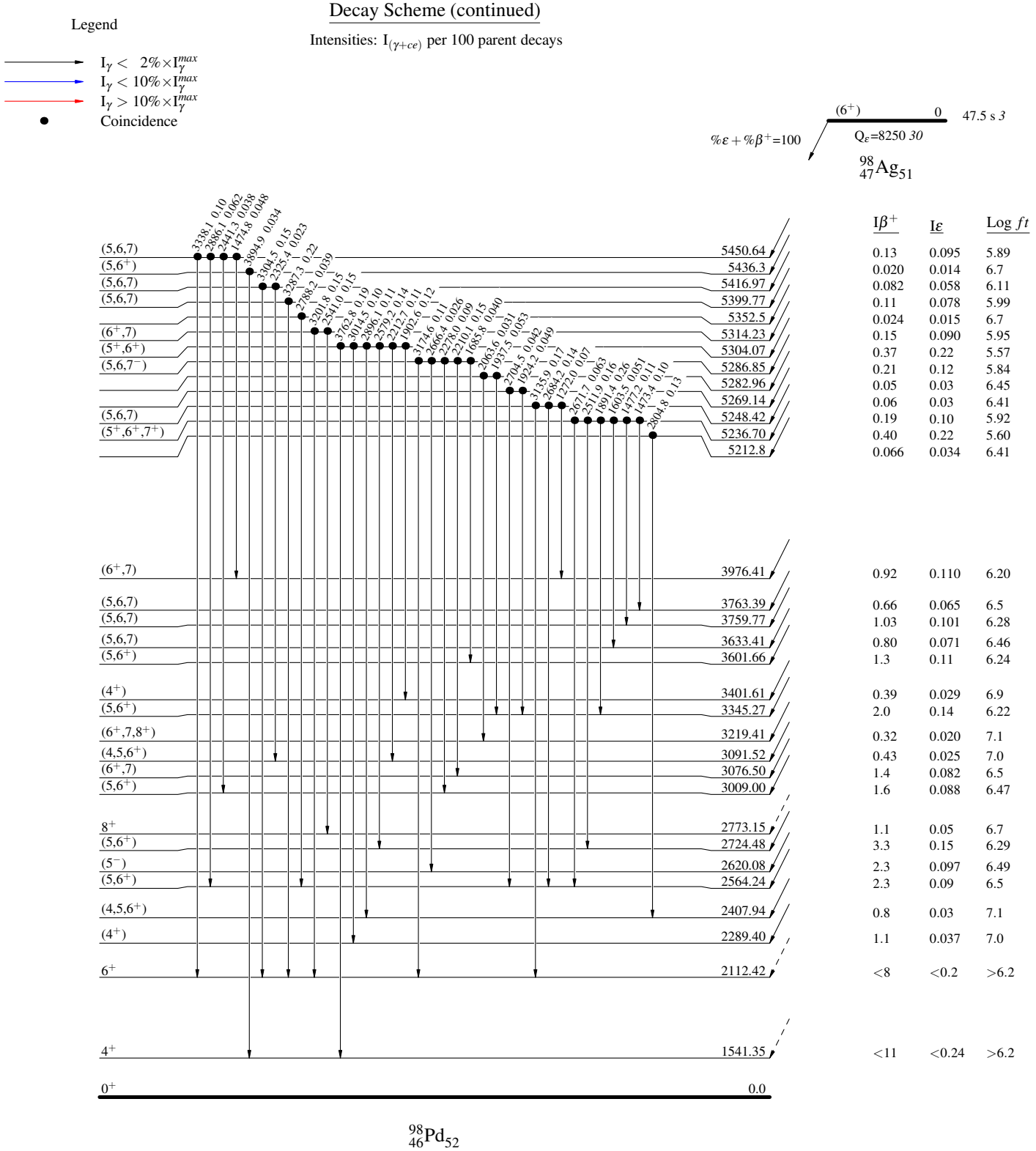


	Iβ+	Iε	Log *ft*
5576.7	0.051	0.049	6.14
5575.2	0.051	0.049	6.14
5573.9	0.02	0.01	6.7
5536.38	0.074	0.066	6.0
5508.9	0.12	0.11	5.8
5507.50	0.17	0.15	5.69
5505.7	0.022	0.019	6.6
5487.11	0.38	0.31	5.37
5477.44	0.29	0.23	5.50
4373.57	0.03	0.006	7.4
4081.74	0.23	0.030	6.7
3976.41	0.92	0.110	6.20
3763.39	0.66	0.065	6.5
3759.77	1.03	0.101	6.28
3601.66	1.3	0.11	6.24
3345.27	2.0	0.14	6.22
3125.24	6.2	0.37	5.83
3091.52	0.43	0.025	7.0
3009.00	1.6	0.088	6.47
3003.70	0.16	0.009	7.5
2784.11	0.41	0.019	7.17
2724.48	3.3	0.15	6.29
2620.08	2.3	0.097	6.49
2564.24	2.3	0.09	6.5
2407.94	0.8	0.03	7.1
2112.42	<8	<0.2	>6.2
1541.35	<11	<0.24	>6.2

^{98}Ag ε decay (47.5 s) 2000Hu17,2001HuZZ

Decay Scheme (continued)

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

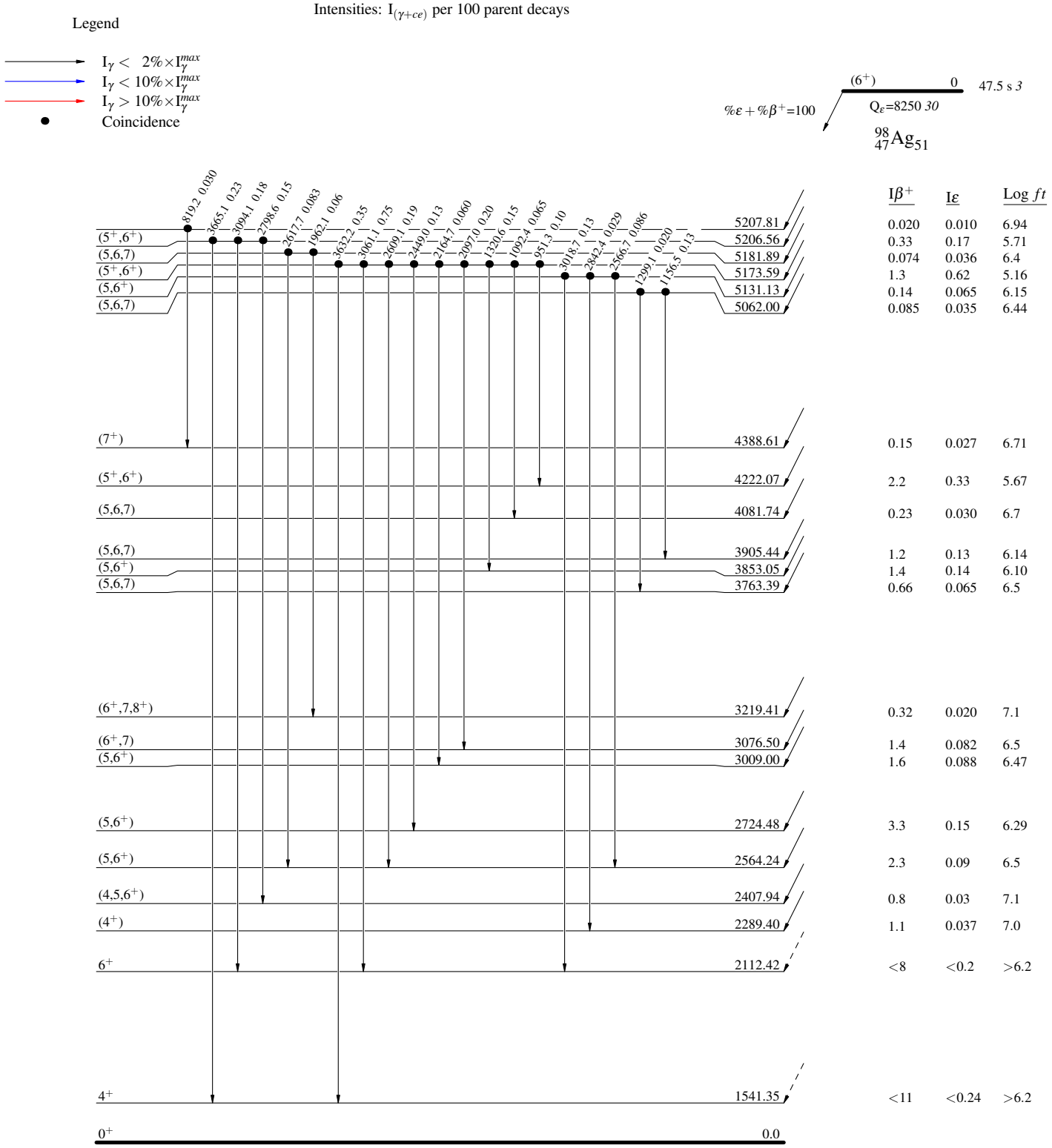


	Iβ+	Iε	Log *ft*
5450.64	0.13	0.095	5.89
5436.3	0.020	0.014	6.7
5416.97	0.082	0.058	6.11
5399.77	0.11	0.078	5.99
5352.5	0.024	0.015	6.7
5314.23	0.15	0.090	5.95
5304.07	0.37	0.22	5.57
5286.85	0.21	0.12	5.84
5282.96	0.05	0.03	6.45
5269.14	0.06	0.03	6.41
5248.42	0.19	0.10	5.92
5236.70	0.40	0.22	5.60
5212.8	0.066	0.034	6.41
3976.41	0.92	0.110	6.20
3763.39	0.66	0.065	6.5
3759.77	1.03	0.101	6.28
3633.41	0.80	0.071	6.46
3601.66	1.3	0.11	6.24
3401.61	0.39	0.029	6.9
3345.27	2.0	0.14	6.22
3219.41	0.32	0.020	7.1
3091.52	0.43	0.025	7.0
3076.50	1.4	0.082	6.5
3009.00	1.6	0.088	6.47
2773.15	1.1	0.05	6.7
2724.48	3.3	0.15	6.29
2620.08	2.3	0.097	6.49
2564.24	2.3	0.09	6.5
2407.94	0.8	0.03	7.1
2289.40	1.1	0.037	7.0
2112.42	<8	<0.2	>6.2
1541.35	<11	<0.24	>6.2

^{98}Ag ε decay (47.5 s) 2000Hu17,2001HuZZ

Decay Scheme (continued)

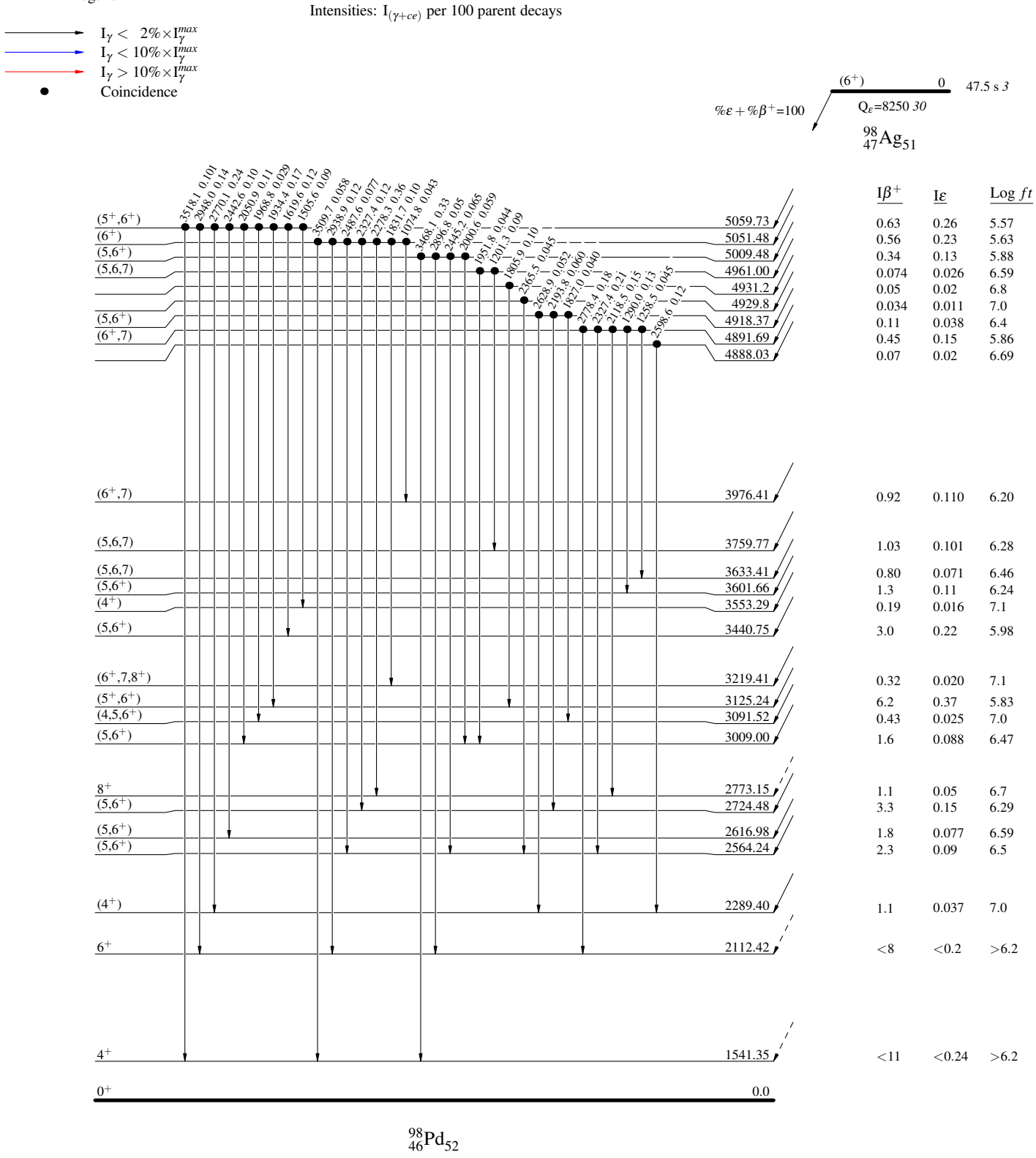
Intensities: $I_{(\gamma+ce)}$ per 100 parent decays



^{98}Ag ε decay (47.5 s) 2000Hu17,2001HuZZ

Decay Scheme (continued)

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

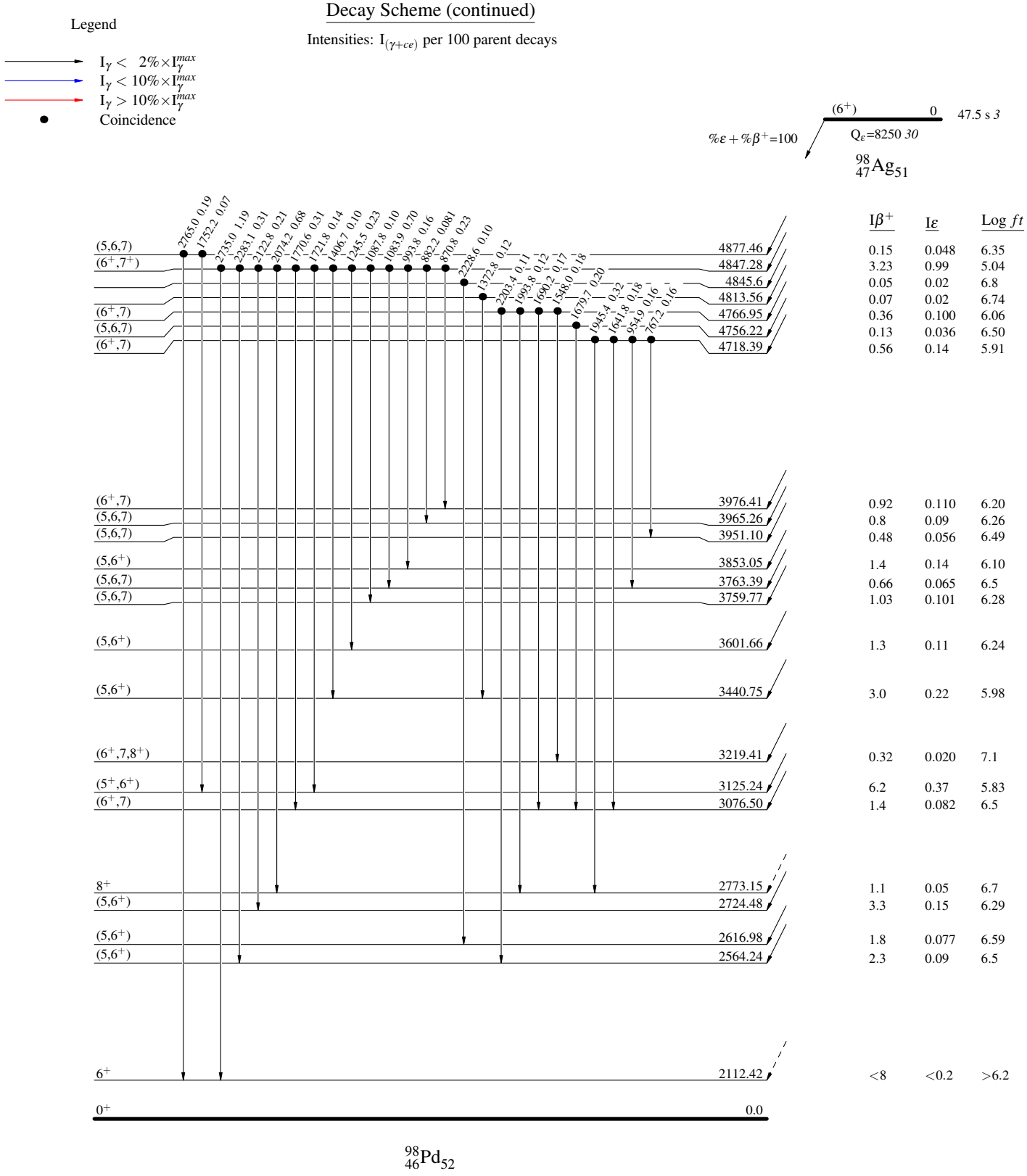


	Iβ+	Iε	Log *ft*
5059.73	0.63	0.26	5.57
5051.48	0.56	0.23	5.63
5009.48	0.34	0.13	5.88
4961.00	0.074	0.026	6.59
4931.2	0.05	0.02	6.8
4929.8	0.034	0.011	7.0
4918.37	0.11	0.038	6.4
4891.69	0.45	0.15	5.86
4888.03	0.07	0.02	6.69
3976.41	0.92	0.110	6.20
3759.77	1.03	0.101	6.28
3633.41	0.80	0.071	6.46
3601.66	1.3	0.11	6.24
3553.29	0.19	0.016	7.1
3440.75	3.0	0.22	5.98
3219.41	0.32	0.020	7.1
3125.24	6.2	0.37	5.83
3091.52	0.43	0.025	7.0
3009.00	1.6	0.088	6.47
2773.15	1.1	0.05	6.7
2724.48	3.3	0.15	6.29
2616.98	1.8	0.077	6.59
2564.24	2.3	0.09	6.5
2289.40	1.1	0.037	7.0
2112.42	<8	<0.2	>6.2
1541.35	<11	<0.24	>6.2

^{98}Ag ε decay (47.5 s) 2000Hu17,2001HuZZ

Decay Scheme (continued)

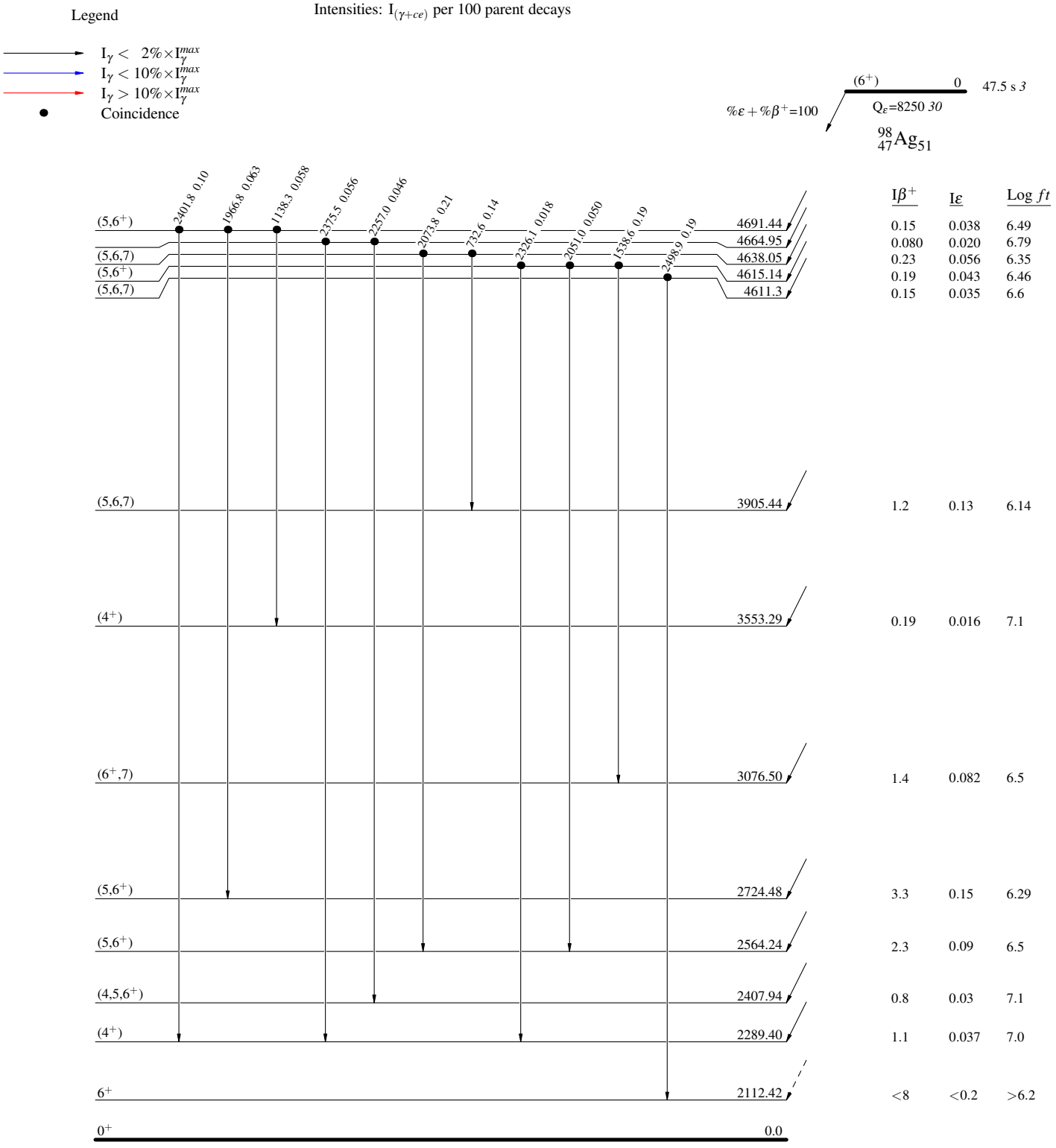
Intensities: $I_{(\gamma+ce)}$ per 100 parent decays



^{98}Ag ε decay (47.5 s) 2000Hu17,2001HuZZ

Decay Scheme (continued)

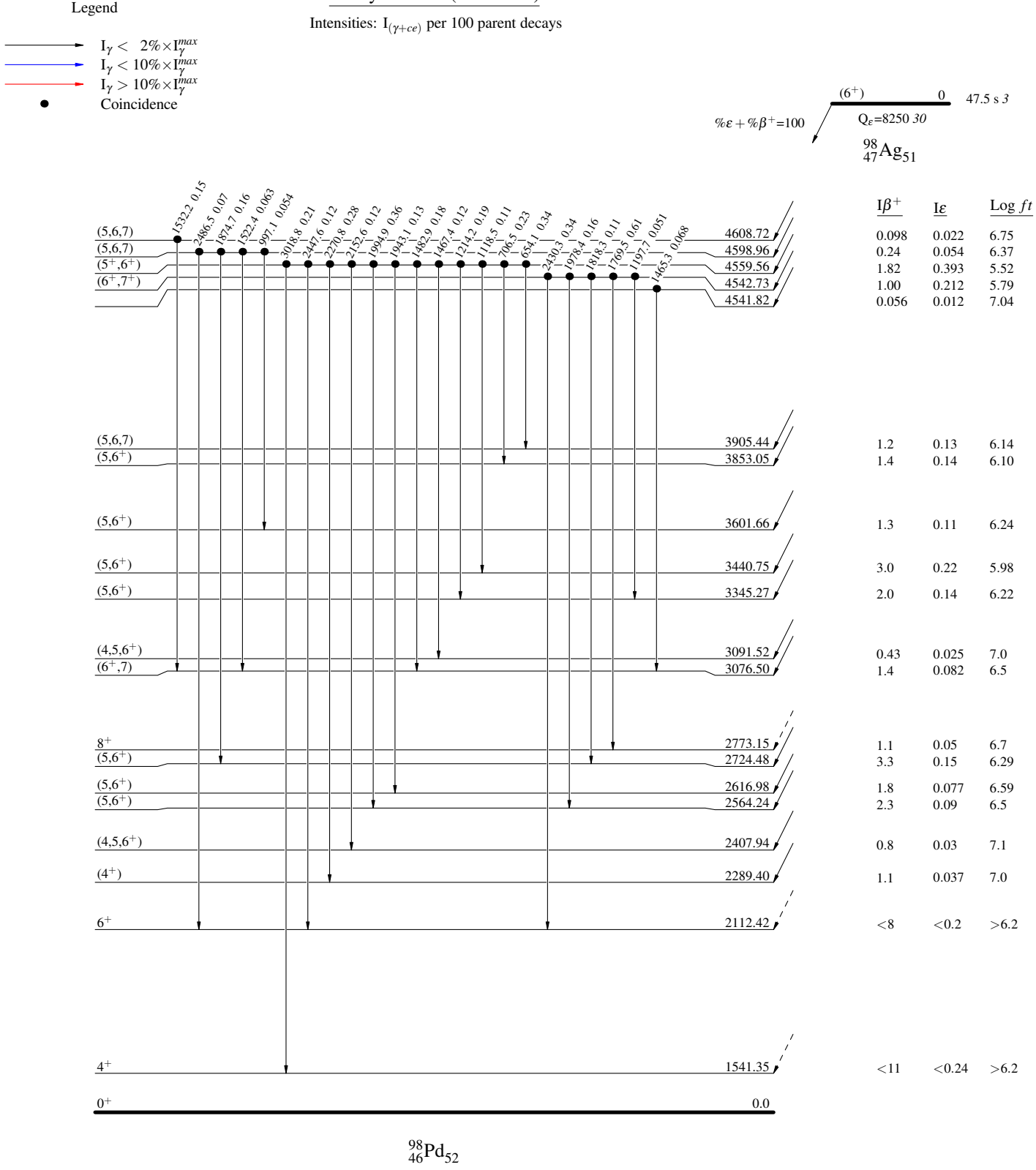
Intensities: $I_{(\gamma+ce)}$ per 100 parent decays



^{98}Ag ε decay (47.5 s) 2000Hu17,2001HuZZ

Decay Scheme (continued)

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



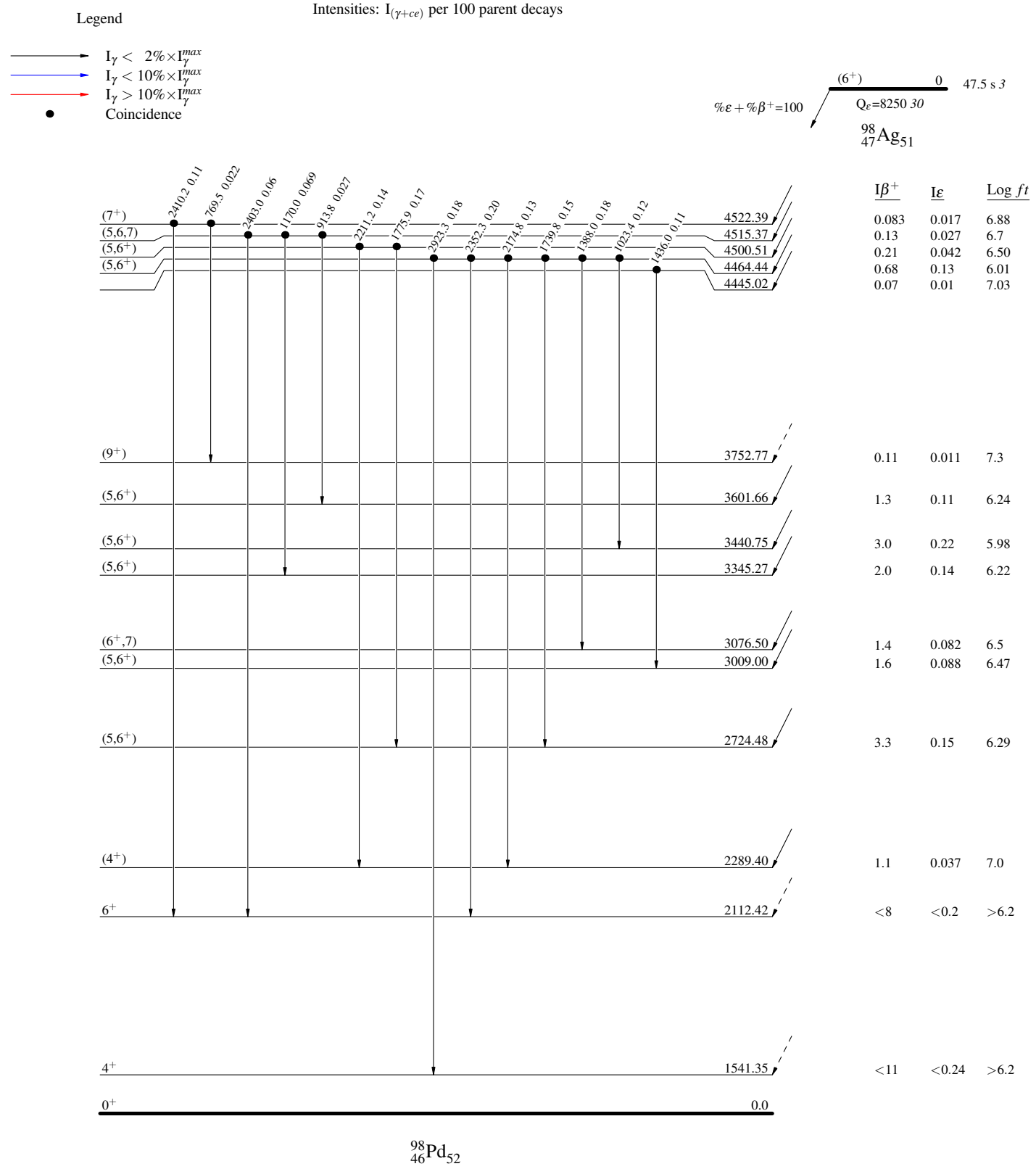
	Iβ+	Iε	Log *ft*
4608.72	0.098	0.022	6.75
4598.96	0.24	0.054	6.37
4559.56	1.82	0.393	5.52
4542.73	1.00	0.212	5.79
4541.82	0.056	0.012	7.04
3905.44	1.2	0.13	6.14
3853.05	1.4	0.14	6.10
3601.66	1.3	0.11	6.24
3440.75	3.0	0.22	5.98
3345.27	2.0	0.14	6.22
3091.52	0.43	0.025	7.0
3076.50	1.4	0.082	6.5
2773.15	1.1	0.05	6.7
2724.48	3.3	0.15	6.29
2616.98	1.8	0.077	6.59
2564.24	2.3	0.09	6.5
2407.94	0.8	0.03	7.1
2289.40	1.1	0.037	7.0
2112.42	<8	<0.2	>6.2
1541.35	<11	<0.24	>6.2

$^{98}_{46}Pd_{52}$

^{98}Ag ε decay (47.5 s) 2000Hu17,2001HuZZ

Decay Scheme (continued)

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

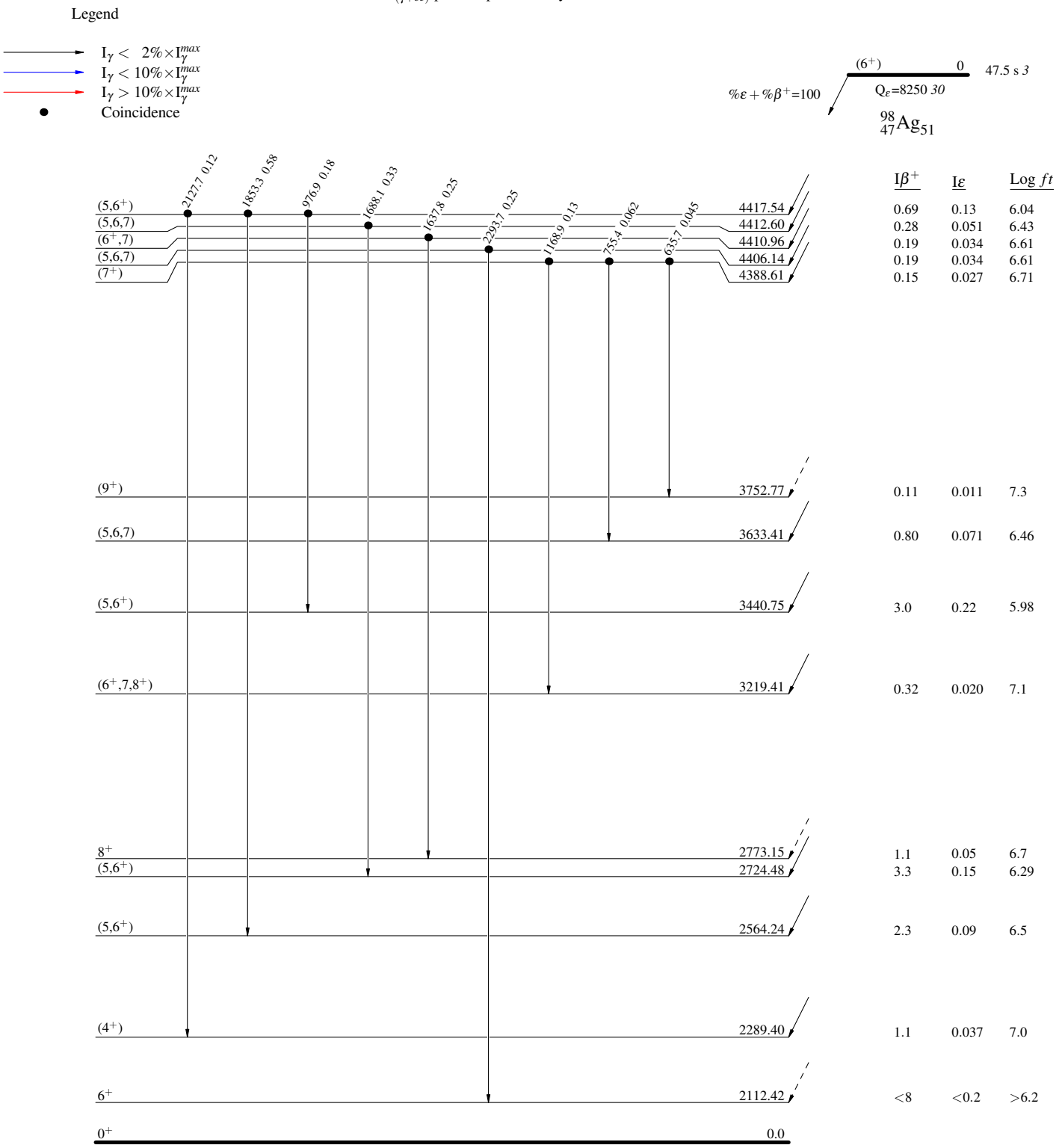


	Iβ+	Iε	Log *ft*
4522.39	0.083	0.017	6.88
4515.37	0.13	0.027	6.7
4500.51	0.21	0.042	6.50
4464.44	0.68	0.13	6.01
4445.02	0.07	0.01	7.03
3752.77	0.11	0.011	7.3
3601.66	1.3	0.11	6.24
3440.75	3.0	0.22	5.98
3345.27	2.0	0.14	6.22
3076.50	1.4	0.082	6.5
3009.00	1.6	0.088	6.47
2724.48	3.3	0.15	6.29
2289.40	1.1	0.037	7.0
2112.42	<8	<0.2	>6.2
1541.35	<11	<0.24	>6.2

^{98}Ag ε decay (47.5 s) 2000Hu17,2001HuZZ

Decay Scheme (continued)

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



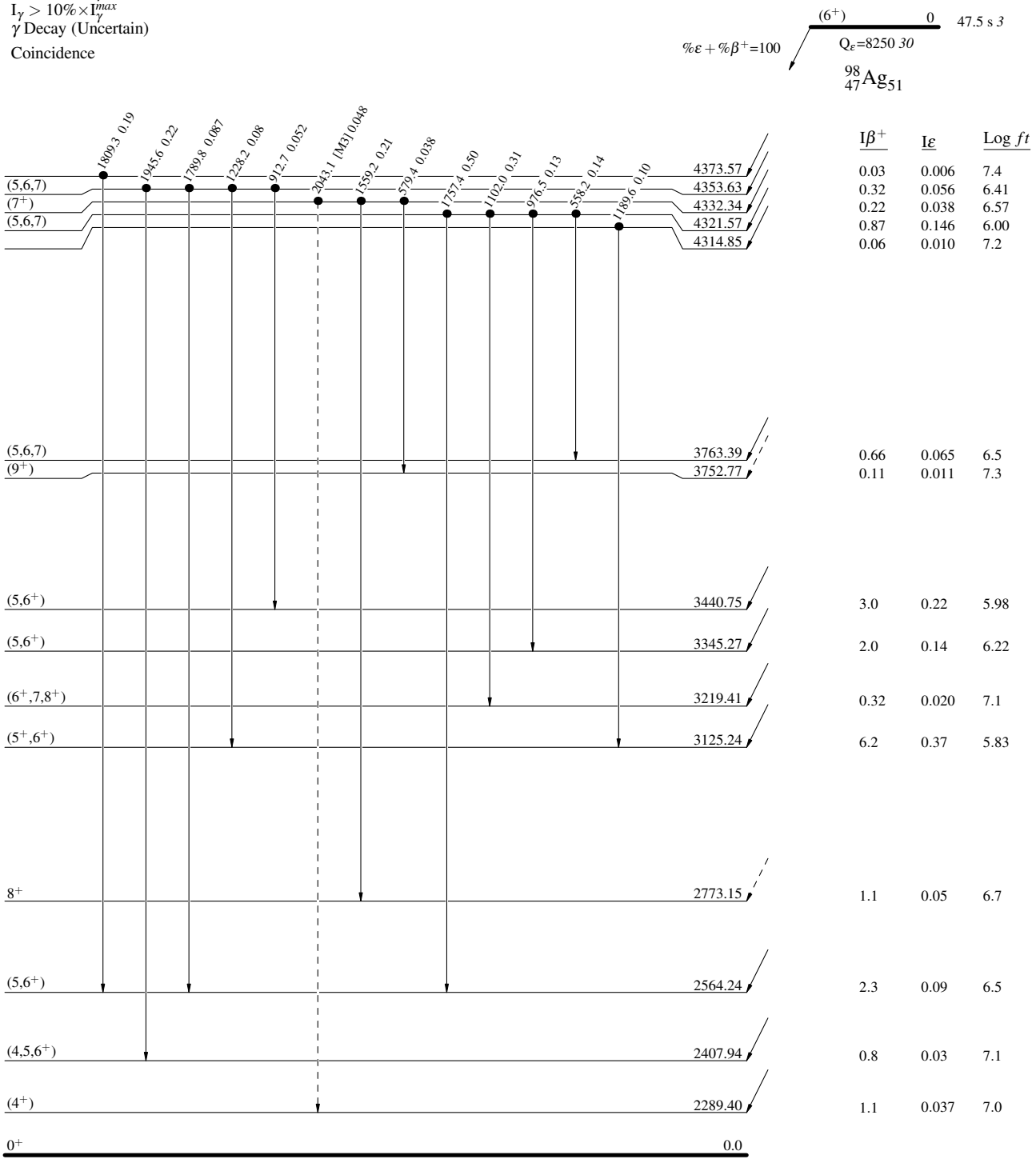
	Iβ+	Iε	Log *ft*
(5,6+) 4417.54	0.69	0.13	6.04
(5,6,7) 4412.60	0.28	0.051	6.43
(6+,7) 4410.96	0.19	0.034	6.61
(5,6,7) 4406.14	0.19	0.034	6.61
(7+) 4388.61	0.15	0.027	6.71
(9+) 3752.77	0.11	0.011	7.3
(5,6,7) 3633.41	0.80	0.071	6.46
(5,6+) 3440.75	3.0	0.22	5.98
(6+,7,8+) 3219.41	0.32	0.020	7.1
8+ 2773.15	1.1	0.05	6.7
(5,6+) 2724.48	3.3	0.15	6.29
(5,6+) 2564.24	2.3	0.09	6.5
(4+) 2289.40	1.1	0.037	7.0
6+ 2112.42	<8	<0.2	>6.2

^{98}Ag ε decay (47.5 s) 2000Hu17,2001HuZZ

Decay Scheme (continued)

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

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



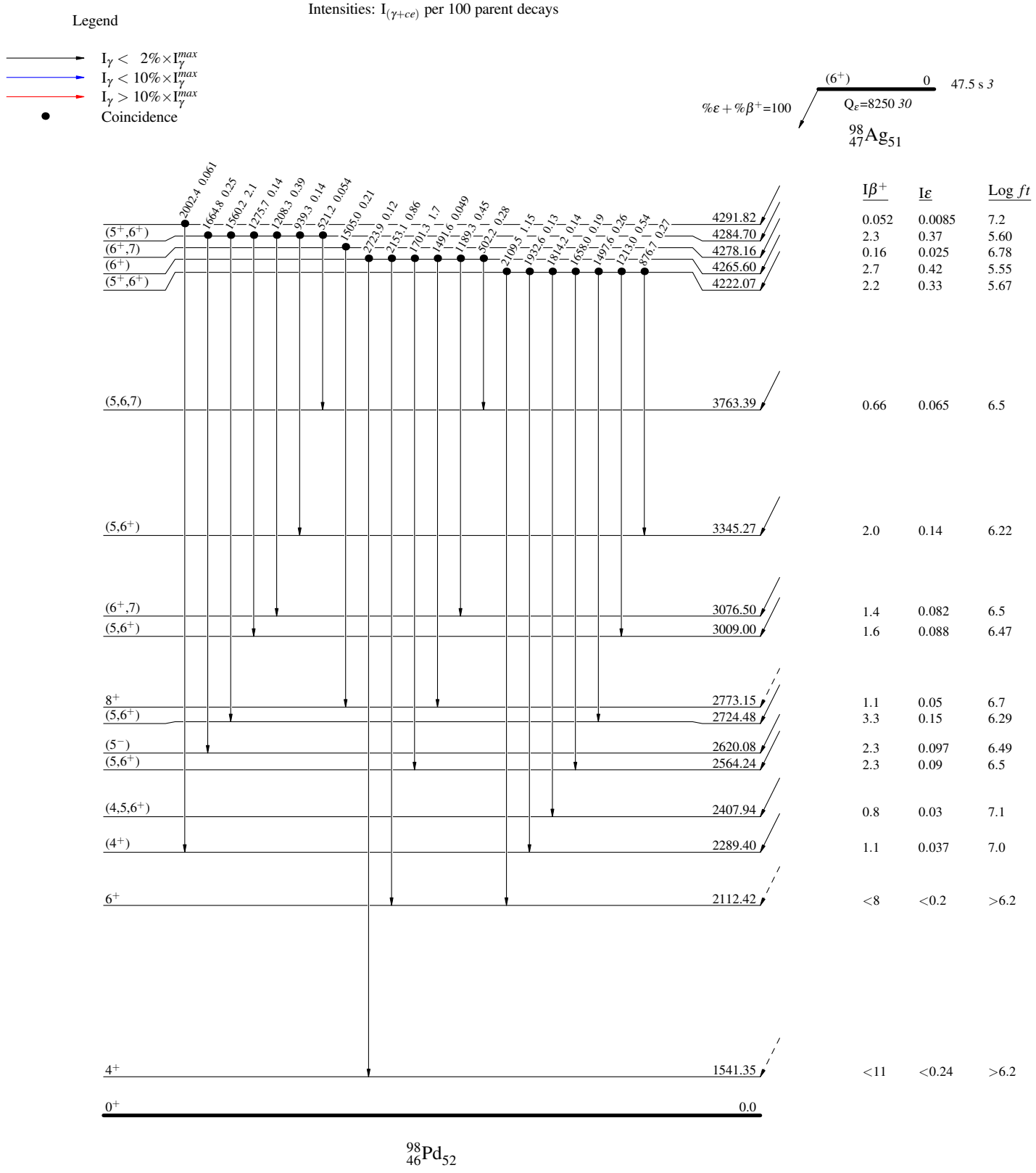
	Iβ+	Iε	Log *ft*
4373.57	0.03	0.006	7.4
4353.63	0.32	0.056	6.41
4332.34	0.22	0.038	6.57
4321.57	0.87	0.146	6.00
4314.85	0.06	0.010	7.2
3763.39	0.66	0.065	6.5
3752.77	0.11	0.011	7.3
3440.75	3.0	0.22	5.98
3345.27	2.0	0.14	6.22
3219.41	0.32	0.020	7.1
3125.24	6.2	0.37	5.83
2773.15	1.1	0.05	6.7
2564.24	2.3	0.09	6.5
2407.94	0.8	0.03	7.1
2289.40	1.1	0.037	7.0

$^{98}_{46}Pd_{52}$

^{98}Ag ε decay (47.5 s) 2000Hu17,2001HuZZ

Decay Scheme (continued)

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

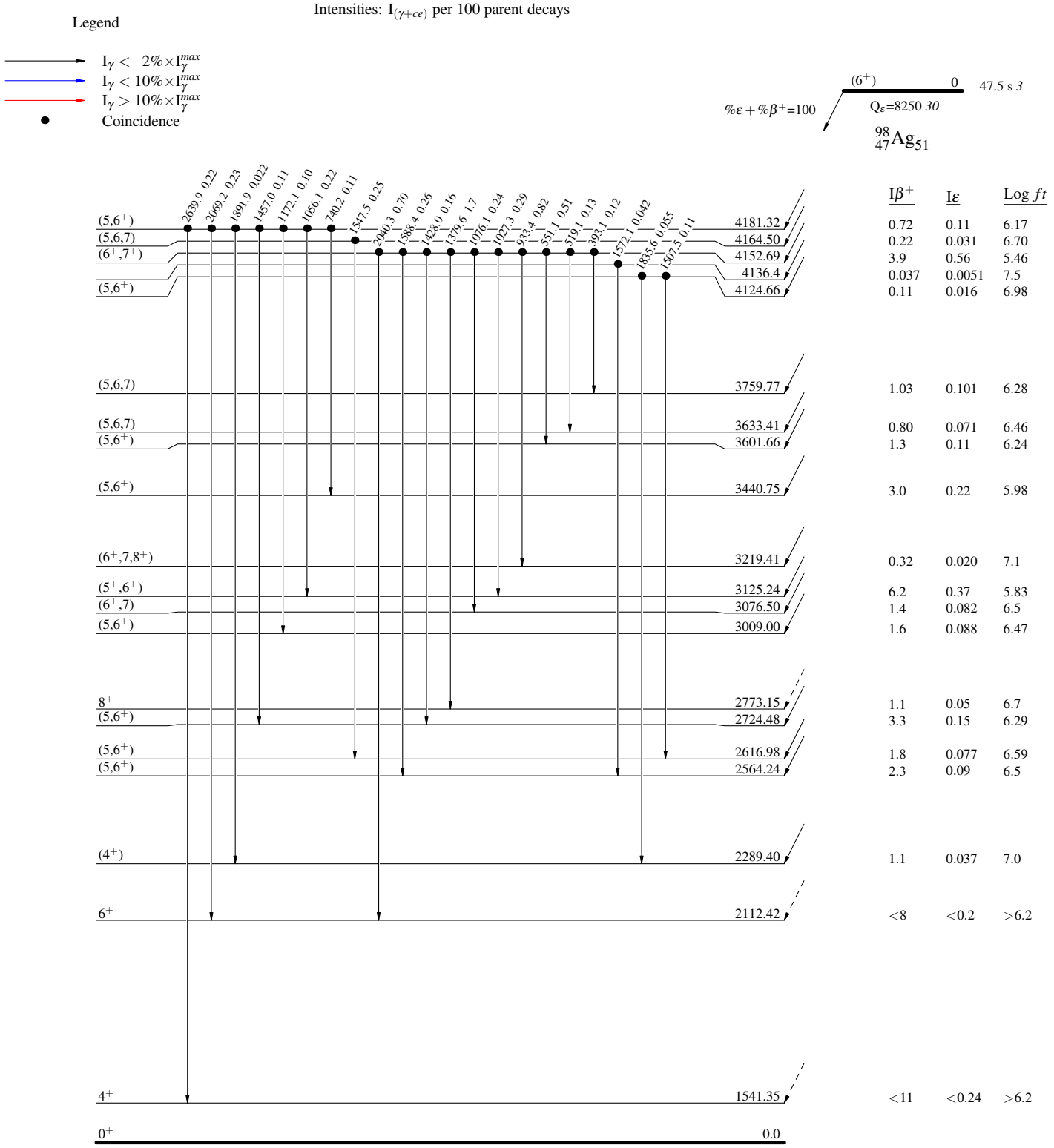


	Iβ+	Iε	Log *ft*
4291.82	0.052	0.0085	7.2
4284.70	2.3	0.37	5.60
4278.16	0.16	0.025	6.78
4265.60	2.7	0.42	5.55
4222.07	2.2	0.33	5.67
3763.39	0.66	0.065	6.5
3345.27	2.0	0.14	6.22
3076.50	1.4	0.082	6.5
3009.00	1.6	0.088	6.47
2773.15	1.1	0.05	6.7
2724.48	3.3	0.15	6.29
2620.08	2.3	0.097	6.49
2564.24	2.3	0.09	6.5
2407.94	0.8	0.03	7.1
2289.40	1.1	0.037	7.0
2112.42	<8	<0.2	>6.2
1541.35	<11	<0.24	>6.2

^{98}Ag ε decay (47.5 s) 2000Hu17,2001HuZZ

Decay Scheme (continued)

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

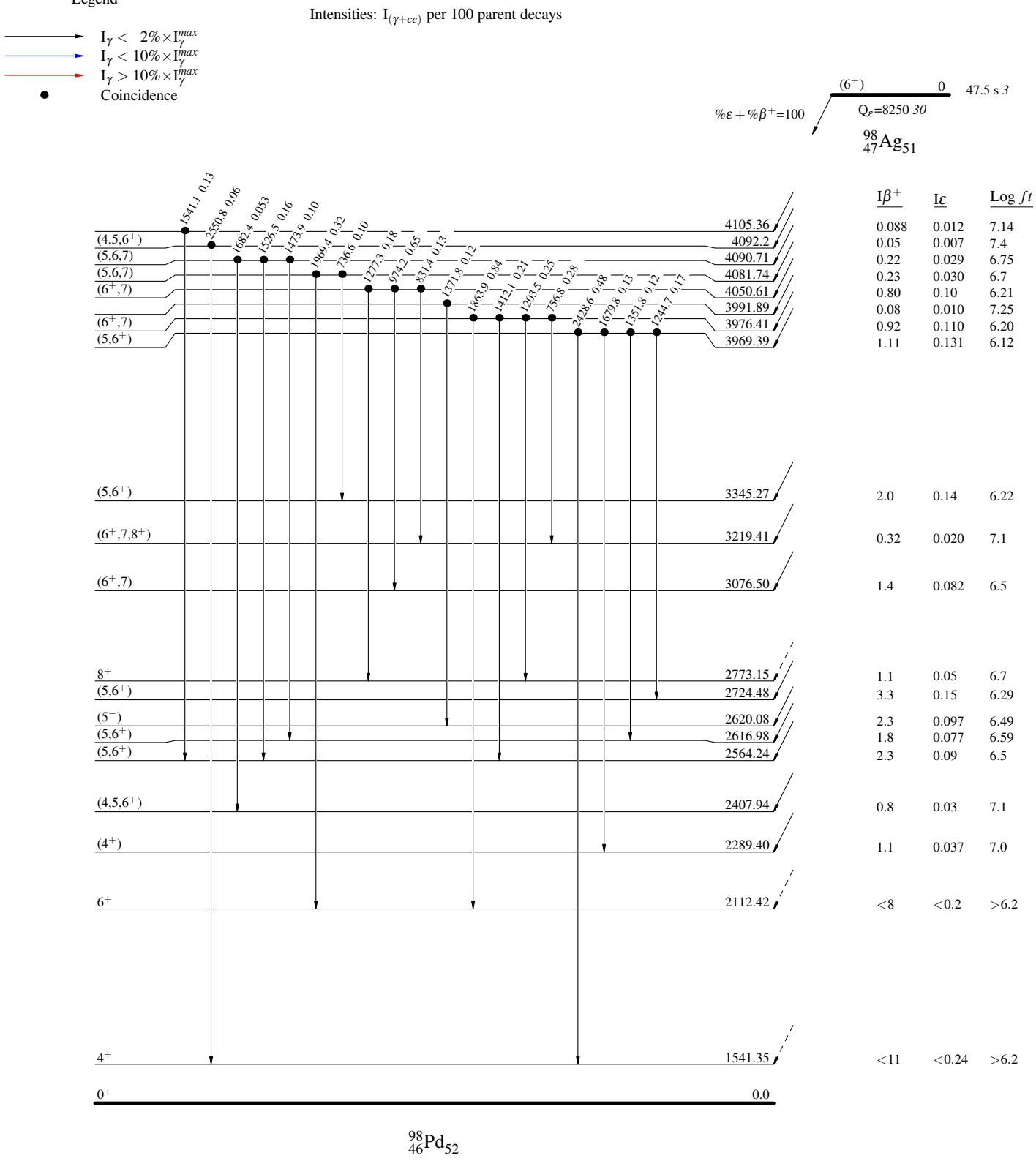


	Iβ+	Iε	Log *ft*
	0.72	0.11	6.17
	0.22	0.031	6.70
	3.9	0.56	5.46
	0.037	0.0051	7.5
	0.11	0.016	6.98
	1.03	0.101	6.28
	0.80	0.071	6.46
	1.3	0.11	6.24
	3.0	0.22	5.98
	0.32	0.020	7.1
	6.2	0.37	5.83
	1.4	0.082	6.5
	1.6	0.088	6.47
	1.1	0.05	6.7
	3.3	0.15	6.29
	1.8	0.077	6.59
	2.3	0.09	6.5
	1.1	0.037	7.0
	<8	<0.2	>6.2
	<11	<0.24	>6.2

^{98}Ag ε decay (47.5 s) 2000Hu17,2001HuZZ

Decay Scheme (continued)

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



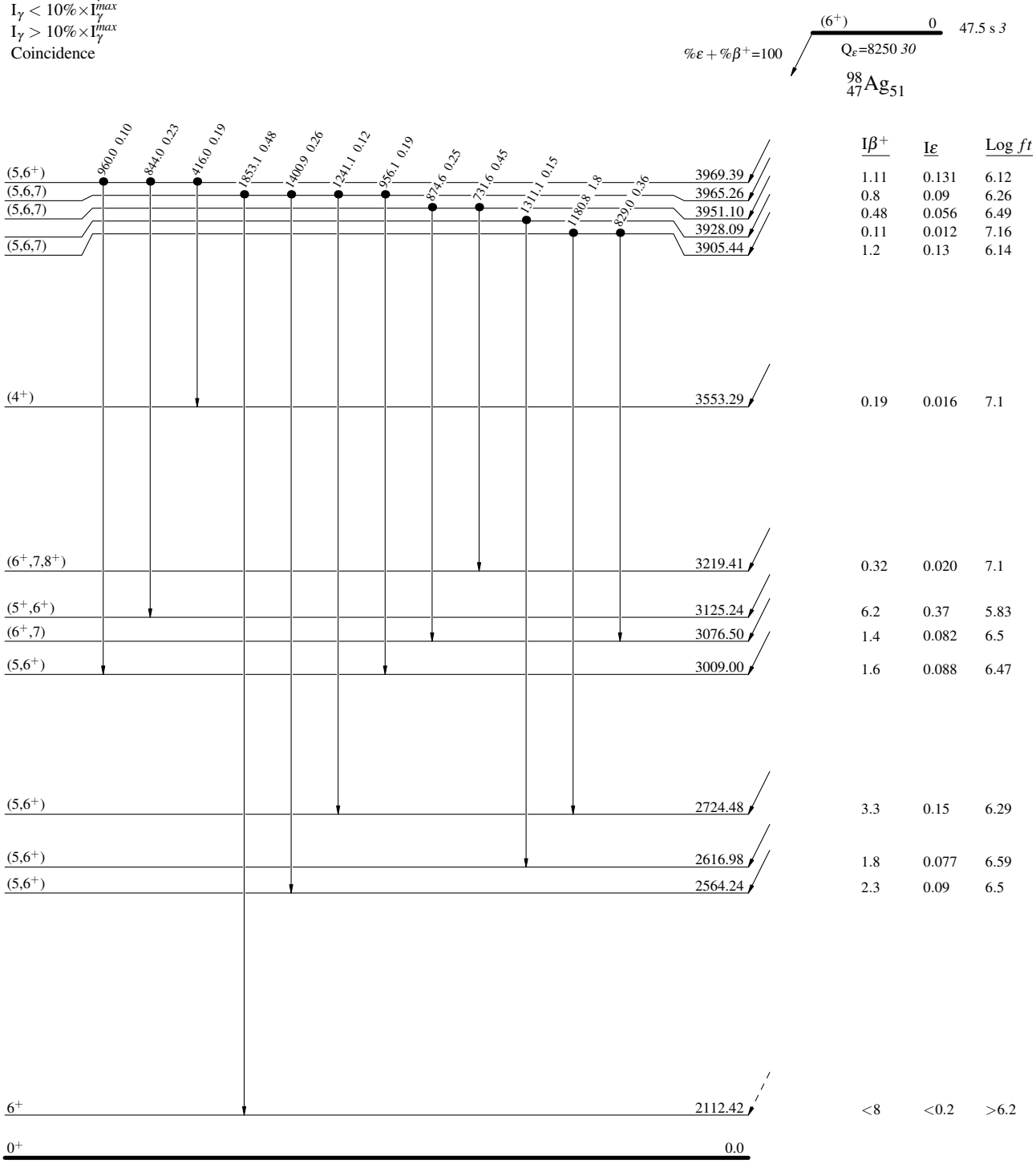
^{98}Ag ε decay (47.5 s) 2000Hu17,2001HuZZ

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



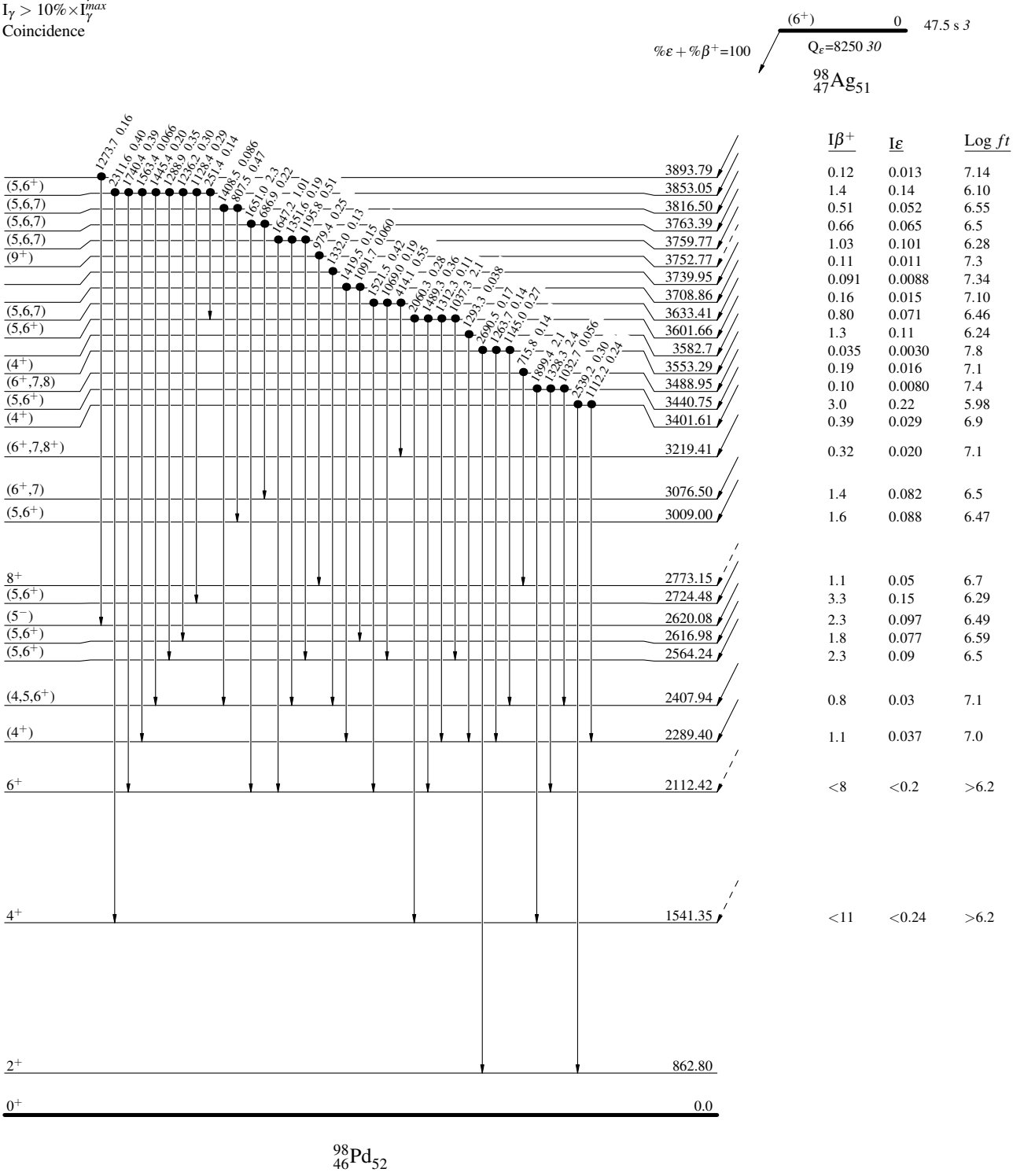
	Iβ+	Iε	Log *ft*
	1.11	0.131	6.12
	0.8	0.09	6.26
	0.48	0.056	6.49
	0.11	0.012	7.16
	1.2	0.13	6.14
	0.19	0.016	7.1
	0.32	0.020	7.1
	6.2	0.37	5.83
	1.4	0.082	6.5
	1.6	0.088	6.47
	3.3	0.15	6.29
	1.8	0.077	6.59
	2.3	0.09	6.5
	<8	<0.2	>6.2

^{98}Ag ε decay (47.5 s) 2000Hu17,2001HuZZ

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



$^{98}_{46}Pd_{52}$

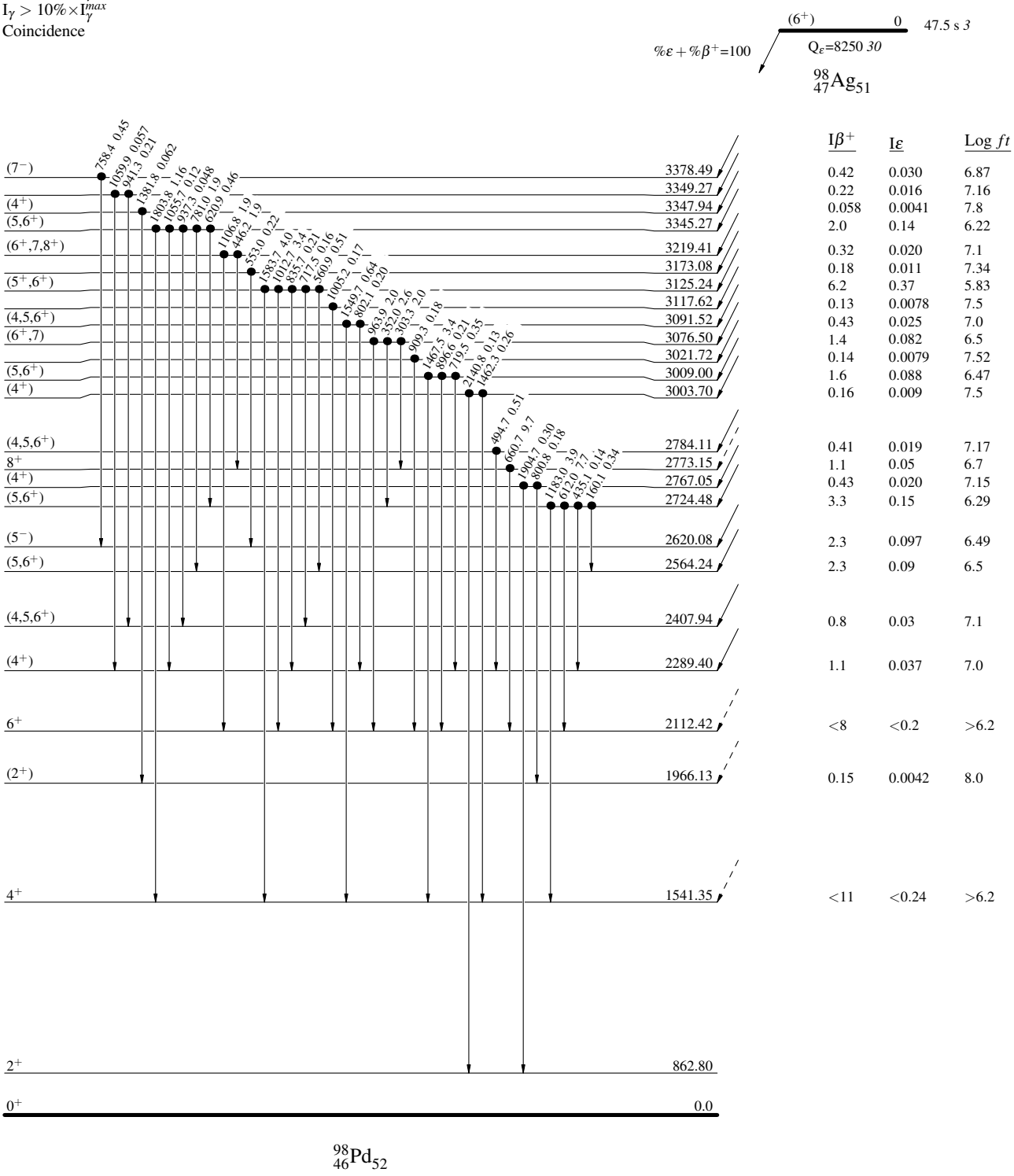
	Iβ+	Iε	Log *ft*
3893.79	0.12	0.013	7.14
3853.05	1.4	0.14	6.10
3816.50	0.51	0.052	6.55
3763.39	0.66	0.065	6.5
3759.77	1.03	0.101	6.28
3752.77	0.11	0.011	7.3
3739.95	0.091	0.0088	7.34
3708.86	0.16	0.015	7.10
3633.41	0.80	0.071	6.46
3601.66	1.3	0.11	6.24
3582.7	0.035	0.0030	7.8
3553.29	0.19	0.016	7.1
3488.95	0.10	0.0080	7.4
3440.75	3.0	0.22	5.98
3401.61	0.39	0.029	6.9
3219.41	0.32	0.020	7.1
3076.50	1.4	0.082	6.5
3009.00	1.6	0.088	6.47
2773.15	1.1	0.05	6.7
2724.48	3.3	0.15	6.29
2620.08	2.3	0.097	6.49
2616.98	1.8	0.077	6.59
2564.24	2.3	0.09	6.5
2407.94	0.8	0.03	7.1
2289.40	1.1	0.037	7.0
2112.42	<8	<0.2	>6.2
1541.35	<11	<0.24	>6.2

^{98}Ag ε decay (47.5 s) 2000Hu17,2001HuZZ

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*
	0.42	0.030	6.87
	0.22	0.016	7.16
	0.058	0.0041	7.8
	2.0	0.14	6.22
	0.32	0.020	7.1
	0.18	0.011	7.34
	6.2	0.37	5.83
	0.13	0.0078	7.5
	0.43	0.025	7.0
	1.4	0.082	6.5
	0.14	0.0079	7.52
	1.6	0.088	6.47
	0.16	0.009	7.5
	0.41	0.019	7.17
	1.1	0.05	6.7
	0.43	0.020	7.15
	3.3	0.15	6.29
	2.3	0.097	6.49
	2.3	0.09	6.5
	0.8	0.03	7.1
	1.1	0.037	7.0
	<8	<0.2	>6.2
	0.15	0.0042	8.0
	<11	<0.24	>6.2

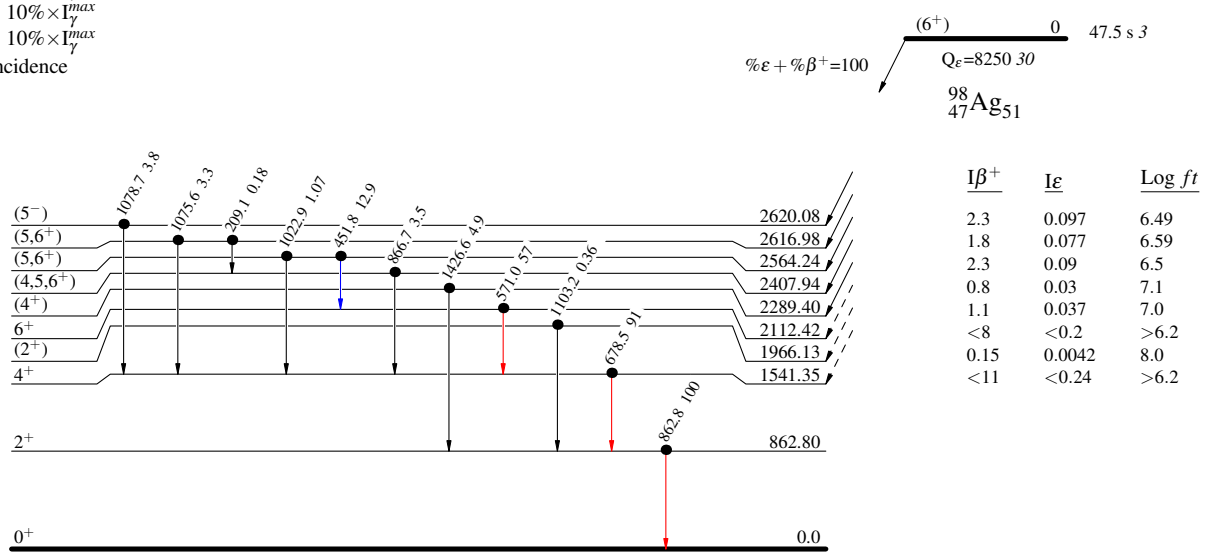
^{98}Ag ε decay (47.5 s) 2000Hu17,2001HuZZ

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*
2.3	0.097	6.49
1.8	0.077	6.59
2.3	0.09	6.5
0.8	0.03	7.1
1.1	0.037	7.0
<8	<0.2	>6.2
0.15	0.0042	8.0
<11	<0.24	>6.2

$^{98}_{46}Pd_{52}$