

^{75}Cu β^- decay (1.224 s) 2011II01

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	Alexandru Negret, Balraj Singh		NDS 114, 841 (2013)	30-Jun-2013

Parent: ^{75}Cu : $E=0$; $J^\pi=5/2^{(-)}$; $T_{1/2}=1.224$ s 3; $Q(\beta^-)=8088$ 3; $\% \beta^-$ decay=100.0

^{75}Cu - J^π , $T_{1/2}$: From ^{75}Cu Adopted Levels.

^{75}Cu - $Q(\beta^-)$: From 2012Wa38.

^{75}Cu - $\% \beta^-$ decay: $\% \beta^-$ -n=3.5 6 (1985Re01), 2.6 5 (2002Pf04).

2011II01: ^{75}Cu beam produced from fission of ^{238}U with protons at Holifield Radioactive Ion beam facility. Mass and isobaric separation of the beam with a high-resolution system. Measured E_γ , I_γ , $\gamma\gamma$ and $\beta\gamma$ coin, isotopic half-life using four HPGe Clover Ge detectors for γ rays and two plastic scintillators for β particles. Level scheme deduced from detailed $\gamma\gamma$ coin data.

 ^{75}Zn Levels

E(level) [†]	J^π #	Comments
0.0	(7/2 ⁺)	
126.94 9	(1/2 ⁻)	E(level): proposed as a β^- -decaying isomer in ^{75}Zn (2011II01). A total of 151.9 4 (or 29 6 absolute units) of relative intensity units are feeding this isomer.
152.12 10	(1/2 ⁺ , 3/2 ⁻)	J^π : 2011II01 assign (3/2 ⁻).
236.22 10	(3/2, 5/2 ⁻)	J^π : 2011II01 assign (3/2 ⁻).
344.95 8	(3/2 ⁺ , 5/2 ⁻)	J^π : 2011II01 assign (5/2 ⁻).
420.52 8	(3/2 ⁺ , 5/2 ⁻)	J^π : 2011II01 assign (5/2 ⁻).
475.66 8	(9/2 ⁺)	
725.14 9	(3/2, 5/2 ⁻)	J^π : 2011II01 assign (3/2, 5/2).
933.47 17		
1012.58 10		J^π : 2011II01 assign (9/2 ⁻).
1102.01 11	(3/2, 5/2 ⁻)	J^π : 2011II01 assign (1/2 ⁻ , 3/2, 5/2).
1144.24 8	(7/2 ⁻)	
1303.90 11	(5/2 ⁺)	J^π : 2011II01 assign (5/2 ⁺ , 7/2 ⁻).
1317.8? 5		
1551.08 18		
1605.83 12	(5/2 ⁺ , 7/2)	
1787.64 16		
1864.30 25		
1915.96 14	(5/2 ⁺ , 7/2)	
2042.5 5		
2230.1 3	(5/2 ⁺ , 7/2)	
2239.60 23		
2315.91 22		
2339.9 3		
2851.26 19		
2871.4 3		
2904.66 [‡] 17		
2906.54 [‡] 15	(7/2 ⁻)	
2969.77 20		
3000.1 3		
3020.37 18		
3087.25 13	(3/2 ⁻ , 5/2, 7/2)	J^π : 2011II01 assign (5/2 ⁻ , 7/2).
3126.55 16	(3/2 ⁻ , 5/2, 7/2)	J^π : 2011II01 assign (5/2 ⁻ , 7/2).
3166.9 4		
3235.04 13	(3/2 ⁻ , 5/2, 7/2)	J^π : 2011II01 assign (5/2 ⁻ , 7/2).
3266.6 3		
3341.48 23	(5/2 ⁺ , 7/2)	
3361.99 15	(3/2 ⁻ , 5/2, 7/2)	J^π : 2011II01 assign (5/2 ⁻ , 7/2).
3406.7 3		
3424.88 21		

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^{75}Cu β^- decay (1.224 s) 2011II01 (continued) ^{75}Zn Levels (continued)

E(level) [†]	J π #	Comments
3492.30 23		
3530.73 22	(5/2 ⁺ ,7/2)	
3546.4 3		
3574.1 4	(5/2 ⁺ ,7/2)	J π : 2011II01 assign (5/2 ⁻ ,7/2).
3576.9 4		J π : 2011II01 assign (5/2 ⁻ ,7/2).
3668.0 3		
3818.3 3		
3840.38 18	(5/2 ⁺ ,7/2 ⁻)	
3886.7 7		
3897.4 7		
3900.1 8		
3999.0 11		
4010.0 5		J π : 2011II01 assign (5/2 ⁺ ,7/2).
4016.4 4		
4035.4 5		J π : 2011II01 assign (5/2 ⁺ ,7/2 ⁻).
4359.0 10		
4599.0 6		
4686.1 5		
4989.6 8		
5022.0 6		

[†] From least-squares fit to E γ data. Reduced $\chi^2=1.0$.

[‡] Two levels at 2904.7 and 2906.5 are proposed by the evaluators based on γ -ray fits in the level scheme, and agreed upon by the first author of 2011II01 in an e-mail reply.

[#] From Adopted Levels. Assignments proposed in 2011II01 based on β feedings and γ -decay pattern are listed under comments.

 β^- radiations

E(decay)	E(level)	I β^- ^{†&}	Log ft [‡]	Comments
(3066 3)	5022.0	0.017 6	6.9	av E β =1313.8 15
(3098 3)	4989.6	0.051 16	6.5	av E β =1329.3 15
(3402 3)	4686.1	0.13 3	6.3	av E β =1474.8 15
(3489 3)	4599.0	0.055 17	6.7	av E β =1516.6 15
(3729 3)	4359.0	0.036 14	7.0	av E β =1632.1 16
(4053 3)	4035.4	0.08 3	6.8	av E β =1788.3 15
(4072 3)	4016.4	0.14 4	6.6	av E β =1797.5 15
(4078 3)	4010.0	0.21 6	6.4	av E β =1800.5 15
(4089 3)	3999.0	0.05 3	7.0	av E β =1805.9 16
(4188 3)	3900.1	0.038 16	7.2	av E β =1853.7 15
(4191 3)	3897.4	0.099 25	6.8	av E β =1855.0 15
(4201 3)	3886.7	0.061 20	7.0	av E β =1860.2 15
(4248 3)	3840.38	1.5 4	5.6	av E β =1882.6 15
(4270 3)	3818.3	0.54 12	6.1	av E β =1893.3 15
(4420 3)	3668.0	0.55 12	6.1	av E β =1966.0 15
(4511 3)	3576.9	0.29 7	6.4	av E β =2010.1 15
(4514 3)	3574.1	0.34 9	6.4	av E β =2011.5 15
(4542 3)	3546.4	0.13 4	6.8	av E β =2024.9 15
(4557 3)	3530.73	0.87 19	6.0	av E β =2032.5 15
(4596 3)	3492.30	0.44 10	6.3	av E β =2051.1 15
(4663 3)	3424.88	0.64 14	6.2	av E β =2083.8 15
(4681 3)	3406.7	0.27 6	6.6	av E β =2092.6 15
(4726 3)	3361.99	2.3 5	5.6	av E β =2114.3 15

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^{75}Cu β^- decay (1.224 s) **2011H01** (continued) β^- radiations (continued)

E(decay)	E(level)	$I\beta^-$ ^{†&}	Log ft [‡]	Comments
(4747 3)	3341.48	0.80 18	6.1	av $E\beta=2124.2$ 15
(4821 3)	3266.6	0.29 7	6.6	av $E\beta=2160.6$ 15
(4853 3)	3235.04	2.5 6	5.7	av $E\beta=2175.9$ 15
(4921 3)	3166.9	0.13 4	7.0	av $E\beta=2208.9$ 15
(4961 3)	3126.55	1.4 3	6.0	av $E\beta=2228.5$ 15
(5001 3)	3087.25	3.0 7	5.6	av $E\beta=2247.6$ 15
(5068 3)	3020.37	1.4 3	6.0	av $E\beta=2280.1$ 15
(5088 3)	3000.1	0.30 17	6.7	av $E\beta=2289.9$ 15
(5118 3)	2969.77	0.67 15	6.3	av $E\beta=2304.6$ 15
(5181 3)	2906.54	6.3 [@] 14	5.4	av $E\beta=2335.3$ 15
(5183 3)	2904.66	1.6 4	6.0	av $E\beta=2336.2$ 15
(5217 3)	2871.4	0.11 3	7.2	av $E\beta=2352.4$ 15
(5237 3)	2851.26	1.7 4	6.0	av $E\beta=2362.2$ 15
(5748 3)	2339.9	0.17 4	7.2	av $E\beta=2610.7$ 15
(5772 3)	2315.91	0.62 14	6.6	av $E\beta=2622.4$ 15
(5848 3)	2239.60	0.28 7	7.0	av $E\beta=2659.5$ 15
(5858 3)	2230.1	0.20 5	7.1	av $E\beta=2664.1$ 15
(6046 3)	2042.5	0.051 18	7.8	av $E\beta=2755.4$ 15
(6172 3)	1915.96	0.61 14	6.7	av $E\beta=2816.9$ 15
(6224 3)	1864.30	0.15 4	7.4	av $E\beta=2842.1$ 15
(6300 3)	1787.64	0.64 14	6.8	av $E\beta=2879.4$ 15
(6482 3)	1605.83	0.71 15	6.8	av $E\beta=2967.9$ 15
(6537 3)	1551.08	0.17 4	7.4	av $E\beta=2994.5$ 15
(6784 3)	1303.90	0.41 9	7.1	av $E\beta=3114.8$ 15
(6944 3)	1144.24	17 4	5.5	av $E\beta=3192.5$ 15
(6986 3)	1102.01	0.79 18	6.9	av $E\beta=3213.1$ 15
(7155 3)	933.47	0.070 23	8.0	av $E\beta=3295.1$ 15
(7363 3)	725.14	2.1 5	6.6	av $E\beta=3396.5$ 15
(7612 3)	475.66	2.1 [#] 5	8.8 ^{1u}	av $E\beta=3519.7$ 15
(7667 3)	420.52	5 1	6.3	av $E\beta=3544.8$ 15
(7743 3)	344.95	3.2 7	6.5	av $E\beta=3581.6$ 15
(7852 3)	236.22	0.62 15	7.2	av $E\beta=3634.5$ 15

[†] **2011H01** list only strong β feedings to 345, 420, 476, 725, 1144, and 2906 levels. Others are deduced by the evaluators. These feedings should be considered as apparent values since about 35% β feeding remains unaccounted. Note that γ rays with uncertain placements are not included by the evaluators in obtaining intensity balances.

[‡] Deduced by the evaluators using LOGFT code. Due to incomplete decay scheme, these values should be considered as approximate, thus no uncertainties are listed here.

[#] 1.8 4 in **2011H01**.

[@] 7.9 17 in **2011H01** for feeding to 2904.6+2906.5 levels.

[&] Absolute intensity per 100 decays.

 $\gamma(^{75}\text{Zn})$

I_γ normalization: Estimated $I_\gamma/100$ decays=19 4 for 420.5 γ from a level of this energy (**2011H01**). An estimated 35% of the β intensity is unaccounted.

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^{75}Cu β^- decay (1.224 s) 2011H01 (continued) $\gamma(^{75}\text{Zn})$ (continued)

E_γ	I_γ † &	E_i (level)	J_i^π	E_f	J_f^π	$I_{(\gamma+ce)}$ &	Comments
(25.2)		152.12	(1/2 ⁺ , 3/2 ⁻)	126.94	(1/2 ⁻)	104.8 ‡ 3	
109.21 14	19.26 19	236.22	(3/2, 5/2 ⁻)	126.94	(1/2 ⁻)		Additional information 1.
131.25 14	1.60 5	1144.24	(7/2 ⁻)	1012.58			
192.72 14	50.0 5	344.95	(3/2 ⁺ , 5/2 ⁻)	152.12	(1/2 ⁺ , 3/2 ⁻)		Additional information 2.
217.90 13	11.24 11	344.95	(3/2 ⁺ , 5/2 ⁻)	126.94	(1/2 ⁻)		Additional information 3.
268.48 13	43.1 4	420.52	(3/2 ⁺ , 5/2 ⁻)	152.12	(1/2 ⁺ , 3/2 ⁻)		Additional information 5.
293.64 13	3.44 6	420.52	(3/2 ⁺ , 5/2 ⁻)	126.94	(1/2 ⁻)		
304.60 13	1.50 6	725.14	(3/2, 5/2 ⁻)	420.52	(3/2 ⁺ , 5/2 ⁻)		
345.00 13	17.26 17	344.95	(3/2 ⁺ , 5/2 ⁻)	0.0	(7/2 ⁺)		Additional information 4.
380.14 13	4.50 7	725.14	(3/2, 5/2 ⁻)	344.95	(3/2 ⁺ , 5/2 ⁻)		
420.51 12	100.0 10	420.52	(3/2 ⁺ , 5/2 ⁻)	0.0	(7/2 ⁺)		Additional information 6.
475.61 12	56.84 15	475.66	(9/2 ⁺)	0.0	(7/2 ⁺)		
488.77 12	2.06 6	725.14	(3/2, 5/2 ⁻)	236.22	(3/2, 5/2 ⁻)		
573.01 12	8.70 20	725.14	(3/2, 5/2 ⁻)	152.12	(1/2 ⁺ , 3/2 ⁻)		
592.06 11	6.22 8	1012.58		420.52	(3/2 ⁺ , 5/2 ⁻)		
598.30 11	10.28 10	725.14	(3/2, 5/2 ⁻)	126.94	(1/2 ⁻)		Additional information 7.
667.45 23	0.87 15	1012.58		344.95	(3/2 ⁺ , 5/2 ⁻)		
668.44 11	13.82 16	1144.24	(7/2 ⁻)	475.66	(9/2 ⁺)		
697.21 17	0.64 6	933.47		236.22	(3/2, 5/2 ⁻)		
723.76 11	70.6 7	1144.24	(7/2 ⁻)	420.52	(3/2 ⁺ , 5/2 ⁻)		Additional information 8.
756.93 12	1.49 6	1102.01	(3/2, 5/2 ⁻)	344.95	(3/2 ⁺ , 5/2 ⁻)		
799.32 11	24.59 25	1144.24	(7/2 ⁻)	344.95	(3/2 ⁺ , 5/2 ⁻)		Additional information 9.
828.29 14	1.03 6	1303.90	(5/2 ⁺)	475.66	(9/2 ⁺)		
854.13 ^a 18	0.57 6	1787.64		933.47			
865.90 17	0.90 7	1102.01	(3/2, 5/2 ⁻)	236.22	(3/2, 5/2 ⁻)		
907.99 11	4.69 8	1144.24	(7/2 ⁻)	236.22	(3/2, 5/2 ⁻)		
975.12 11	2.78 8	1102.01	(3/2, 5/2 ⁻)	126.94	(1/2 ⁻)		
1067.76 14	1.14 8	1303.90	(5/2 ⁺)	236.22	(3/2, 5/2 ⁻)		
1075.42 16	0.90 7	1551.08		475.66	(9/2 ⁺)		
1081.6 ^a 4	0.29 7	1317.8?		236.22	(3/2, 5/2 ⁻)		
1109.0 4	0.27 7	2042.5		933.47			
1130.16 12	2.26 8	1605.83	(5/2 ⁺ , 7/2)	475.66	(9/2 ⁺)		
1144.37 ^a 16	1.02 8	1144.24	(7/2 ⁻)	0.0	(7/2 ⁺)		
1176.86 ^a 11	4.62 10	1303.90	(5/2 ⁺)	126.94	(1/2 ⁻)		
1185.30 16	1.46 9	1605.83	(5/2 ⁺ , 7/2)	420.52	(3/2 ⁺ , 5/2 ⁻)		
1440.23 15	1.68 9	1915.96	(5/2 ⁺ , 7/2)	475.66	(9/2 ⁺)		
1495.52 20	1.54 15	1915.96	(5/2 ⁺ , 7/2)	420.52	(3/2 ⁺ , 5/2 ⁻)		
1551.42 14	3.39 10	1787.64		236.22	(3/2, 5/2 ⁻)		
1628.06 23	0.80 9	1864.30		236.22	(3/2, 5/2 ⁻)		
1757.6 ^{#a} 3	1.20 17	2230.1	(5/2 ⁺ , 7/2)	475.66	(9/2 ⁺)		
1760.46 16	6.91 20	2904.66		1144.24	(7/2 ⁻)		
1809.6 3	1.03 15	2230.1	(5/2 ⁺ , 7/2)	420.52	(3/2 ⁺ , 5/2 ⁻)		
1840.23 20	3.24 12	2315.91		475.66	(9/2 ⁺)		
1864.23 24	0.90 10	2339.9		475.66	(9/2 ⁺)		
1894.62 21	1.45 11	2239.60		344.95	(3/2 ⁺ , 5/2 ⁻)		
1942.98 26	1.91 20	3087.25	(3/2 ⁻ , 5/2, 7/2)	1144.24	(7/2 ⁻)		

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^{75}Cu β^- decay (1.224 s) 2011H01 (continued) $\gamma(^{75}\text{Zn})$ (continued)

E_γ	I_γ †&	$E_i(\text{level})$	J_i^π	E_f	J_f^π
1982.01 17	4.87 9	3126.55	(3/2 ⁻ ,5/2,7/2)	1144.24	(7/2 ⁻)
2024.7 4	1.00 16	3126.55	(3/2 ⁻ ,5/2,7/2)	1102.01	(3/2,5/2 ⁻)
2074.75 22	1.79 12	3087.25	(3/2 ⁻ ,5/2,7/2)	1012.58	
2090.84 20	4.53 14	3235.04	(3/2 ⁻ ,5/2,7/2)	1144.24	(7/2 ⁻)
2114.8 3	0.86 12	3126.55	(3/2 ⁻ ,5/2,7/2)	1012.58	
2217.32 19	7.75 16	3361.99	(3/2 ⁻ ,5/2,7/2)	1144.24	(7/2 ⁻)
2222.47 24	2.05 13	3235.04	(3/2 ⁻ ,5/2,7/2)	1012.58	
2244.5 3	1.62 12	2969.77		725.14	(3/2,5/2 ⁻)
2262.0 ^a 6	0.95 13	3406.7		1144.24	(7/2 ⁻)
2295.24 21	2.79 11	3020.37		725.14	(3/2,5/2 ⁻)
2349.60 ^a 23	0.35 2	3361.99	(3/2 ⁻ ,5/2,7/2)	1012.58	
2362.05 21	4.45 12	3087.25	(3/2 ⁻ ,5/2,7/2)	725.14	(3/2,5/2 ⁻)
2430.68 21	6.63 19	2851.26		420.52	(3/2 ⁺ ,5/2 ⁻)
2430.88 21	10.91 19	2906.54	(7/2 ⁻)	475.66	(9/2 ⁺)
2485.99 22	15.38 18	2906.54	(7/2 ⁻)	420.52	(3/2 ⁺ ,5/2 ⁻)
2506.3 3	2.23 13	2851.26		344.95	(3/2 ⁺ ,5/2 ⁻)
2509.83 24	2.93 13	3235.04	(3/2 ⁻ ,5/2,7/2)	725.14	(3/2,5/2 ⁻)
2524.4 3	1.58 10	3000.1		475.66	(9/2 ⁺)
2549.23 25	1.55 11	2969.77		420.52	(3/2 ⁺ ,5/2 ⁻)
2559.3 4	1.42 12	2904.66		344.95	(3/2 ⁺ ,5/2 ⁻)
2565.0 9	0.49 14	3576.9		1012.58	
2625.0 6	0.34 9	2969.77		344.95	(3/2 ⁺ ,5/2 ⁻)
2635.14 27	0.60 4	2871.4		236.22	(3/2,5/2 ⁻)
2666.70 24	4.36 15	3087.25	(3/2 ⁻ ,5/2,7/2)	420.52	(3/2 ⁺ ,5/2 ⁻)
2675.32 24	4.33 12	3020.37		344.95	(3/2 ⁺ ,5/2 ⁻)
2695.9 3	1.52 12	3840.38	(5/2 ⁺ ,7/2 ⁻)	1144.24	(7/2 ⁻)
2699.5 3	1.22 11	3424.88		725.14	(3/2,5/2 ⁻)
2742.10 25	3.34 11	3087.25	(3/2 ⁻ ,5/2,7/2)	344.95	(3/2 ⁺ ,5/2 ⁻)
2780.8 9	0.45 19	3126.55	(3/2 ⁻ ,5/2,7/2)	344.95	(3/2 ⁺ ,5/2 ⁻)
2784.0 9	0.45 19	3020.37		236.22	(3/2,5/2 ⁻)
2814.2 3	0.33 20	3235.04	(3/2 ⁻ ,5/2,7/2)	420.52	(3/2 ⁺ ,5/2 ⁻)
2821.9 4	0.71 14	3166.9		344.95	(3/2 ⁺ ,5/2 ⁻)
2848.8 8	0.70 20	3574.1	(5/2 ⁺ ,7/2)	725.14	(3/2,5/2 ⁻)
2865.9 3	2.13 11	3341.48	(5/2 ⁺ ,7/2)	475.66	(9/2 ⁺)
2890.1 3	3.18 19	3235.04	(3/2 ⁻ ,5/2,7/2)	344.95	(3/2 ⁺ ,5/2 ⁻)
2906.4 3	6.70 14	2906.54	(7/2 ⁻)	0.0	(7/2 ⁺)
2921.4 3	1.53 10	3266.6		344.95	(3/2 ⁺ ,5/2 ⁻)
2931.1 3	1.43 11	3406.7		475.66	(9/2 ⁺)
2942.5 3	2.35 11	3668.0		725.14	(3/2,5/2 ⁻)
2996.1 5	0.73 13	3341.48	(5/2 ⁺ ,7/2)	344.95	(3/2 ⁺ ,5/2 ⁻)
3004.2 4	1.04 14	3424.88		420.52	(3/2 ⁺ ,5/2 ⁻)
3017.6 3	4.21 13	3361.99	(3/2 ⁻ ,5/2,7/2)	344.95	(3/2 ⁺ ,5/2 ⁻)
3055.2 4	0.58 9	3530.73	(5/2 ⁺ ,7/2)	475.66	(9/2 ⁺)
3070.7 3	0.67 11	3546.4		475.66	(9/2 ⁺)
3071.7 3	0.67 11	3492.30		420.52	(3/2 ⁺ ,5/2 ⁻)
3080.14 33	1.10 10	3424.88		344.95	(3/2 ⁺ ,5/2 ⁻)
3098.4 4	1.08 12	3574.1	(5/2 ⁺ ,7/2)	475.66	(9/2 ⁺)
3110.4 3	2.60 13	3530.73	(5/2 ⁺ ,7/2)	420.52	(3/2 ⁺ ,5/2 ⁻)
3115.1 ^a 5	0.48 11	3266.6		152.12	(1/2 ⁺ ,3/2 ⁻)
3147.3 3	1.67 10	3492.30		344.95	(3/2 ⁺ ,5/2 ⁻)
3231.7 4	1.01 9	3576.9		344.95	(3/2 ⁺ ,5/2 ⁻)
3248.2 5	0.55 8	3668.0		420.52	(3/2 ⁺ ,5/2 ⁻)
3341.4 4	1.37 9	3341.48	(5/2 ⁺ ,7/2)	0.0	(7/2 ⁺)
3365.3 4	1.38 9	3840.38	(5/2 ⁺ ,7/2 ⁻)	475.66	(9/2 ⁺)
3397.7 3	2.30 10	3818.3		420.52	(3/2 ⁺ ,5/2 ⁻)

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^{75}Cu β^- decay (1.224 s) 2011H01 (continued) $\gamma(^{75}\text{Zn})$ (continued)

E_γ	$I_\gamma^{\dagger\&}$	$E_i(\text{level})$	J_i^π	E_f	J_f^π
3411.0 7	0.32 8	3886.7		475.66	(9/2 ⁺)
3419.7 4	1.43 10	3840.38	(5/2 ⁺ , 7/2 ⁻)	420.52	(3/2 ⁺ , 5/2 ⁻)
3495.2 4	1.17 8	3840.38	(5/2 ⁺ , 7/2 ⁻)	344.95	(3/2 ⁺ , 5/2 ⁻)
3530.0 4	1.38 13	3530.73	(5/2 ⁺ , 7/2)	0.0	(7/2 ⁺)
3533.8 6	0.70 13	4010.0		475.66	(9/2 ⁺)
3540.7 4	0.73 7	4016.4		475.66	(9/2 ⁺)
3555.1 8	0.20 7	3900.1		344.95	(3/2 ⁺ , 5/2 ⁻)
3560.1 8	0.15 7	4035.4		475.66	(9/2 ⁺)
3578.4 11	0.28 12	3999.0		420.52	(3/2 ⁺ , 5/2 ⁻)
3581.8 7	0.52 12	3818.3		236.22	(3/2, 5/2 ⁻)
3661.1 7	0.52 7	3897.4		236.22	(3/2, 5/2 ⁻)
3665.5 6	0.38 8	4010.0		344.95	(3/2 ⁺ , 5/2 ⁻)
3688.1 4	2.59 9	3840.38	(5/2 ⁺ , 7/2 ⁻)	152.12	(1/2 ⁺ , 3/2 ⁻)
3798.7 7	0.28 7	4035.4		236.22	(3/2, 5/2 ⁻)
3845.3 8	0.27 6	4989.6		1144.24	(7/2 ⁻)
3883.2 10	0.19 6	4359.0		475.66	(9/2 ⁺)
^x 4011.5 7	0.30 @ 6				
^x 4017.0 6	<0.2				
^x 4019.0 6	<0.2				
4035.2 ^d 10	0.17 6	4035.4		0.0	(7/2 ⁺)
^x 4098.4 5	0.6 1				
4123.2 6	0.29 6	4599.0		475.66	(9/2 ⁺)
^x 4137.7 5	0.5 1				
^x 4206.3 9	0.2 1				
4341.0 5	0.68 6	4686.1		344.95	(3/2 ⁺ , 5/2 ⁻)
4785.0 10	0.03 1	5022.0		236.22	(3/2, 5/2 ⁻)
4895.1 6	0.06 2	5022.0		126.94	(1/2 ⁻)

[†] Uncertainties quoted in 2011H01 are statistical only, as communicated to the evaluators by the first author in an e-mail reply. The evaluators have assigned minimum of 1% uncertainty to take into account systematic uncertainties arising from efficiency calibration and peak fitting procedures.

[‡] From intensity balance at 152 level. There may be direct β feeding also which is not taken into account (evaluators' comment).

Poor fit, level-energy difference=1754.5.

@ Uncertainty quoted as 0.6 in 2011H01 seems a misprint. The evaluators assign 0.06.

& For absolute intensity per 100 decays, multiply by 0.19 4.

^a Placement of transition in the level scheme is uncertain.

^x γ ray not placed in level scheme.

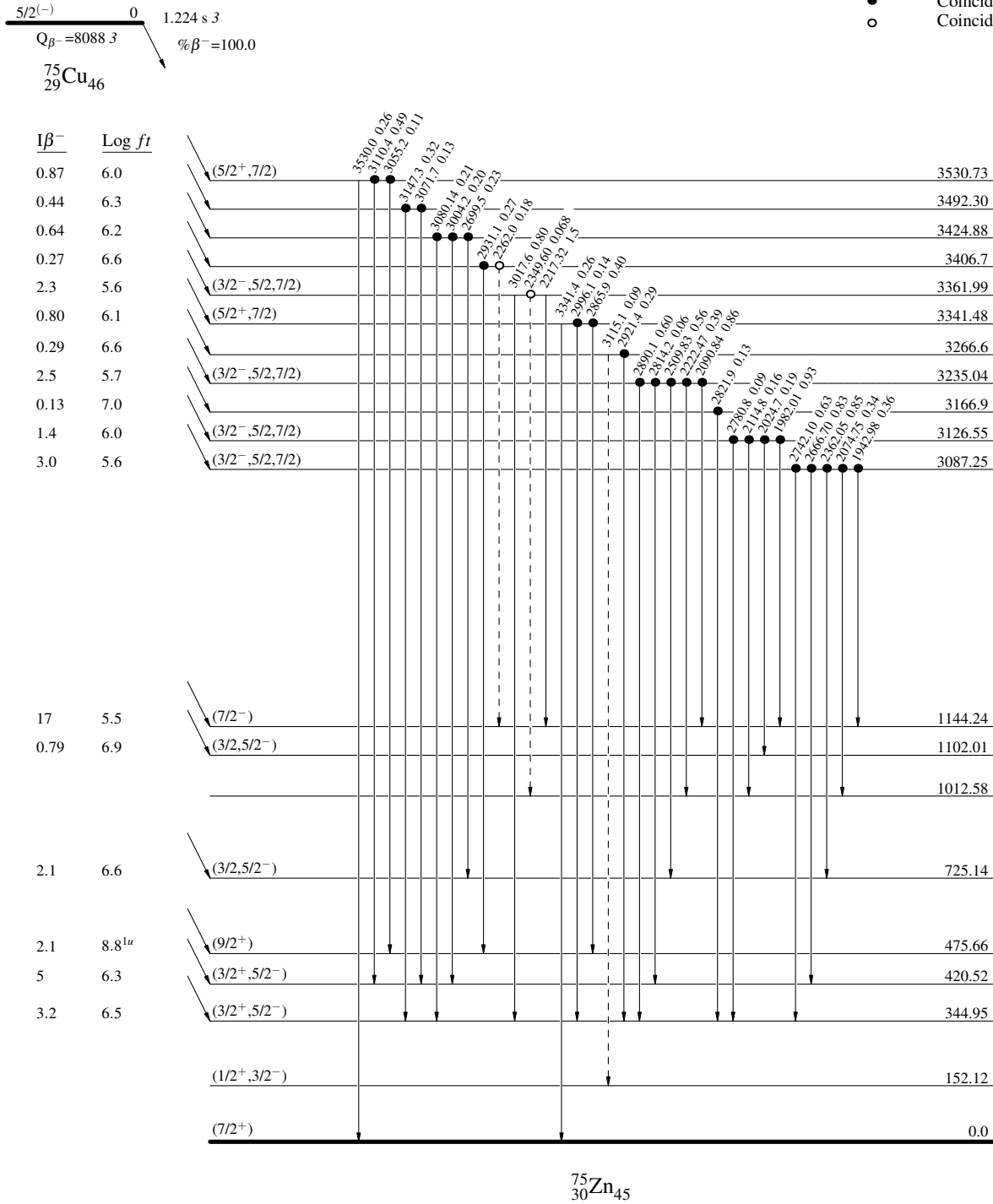
^{75}Cu β^- decay (1.224 s) 2011H01

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
- Coincidence (Uncertain)



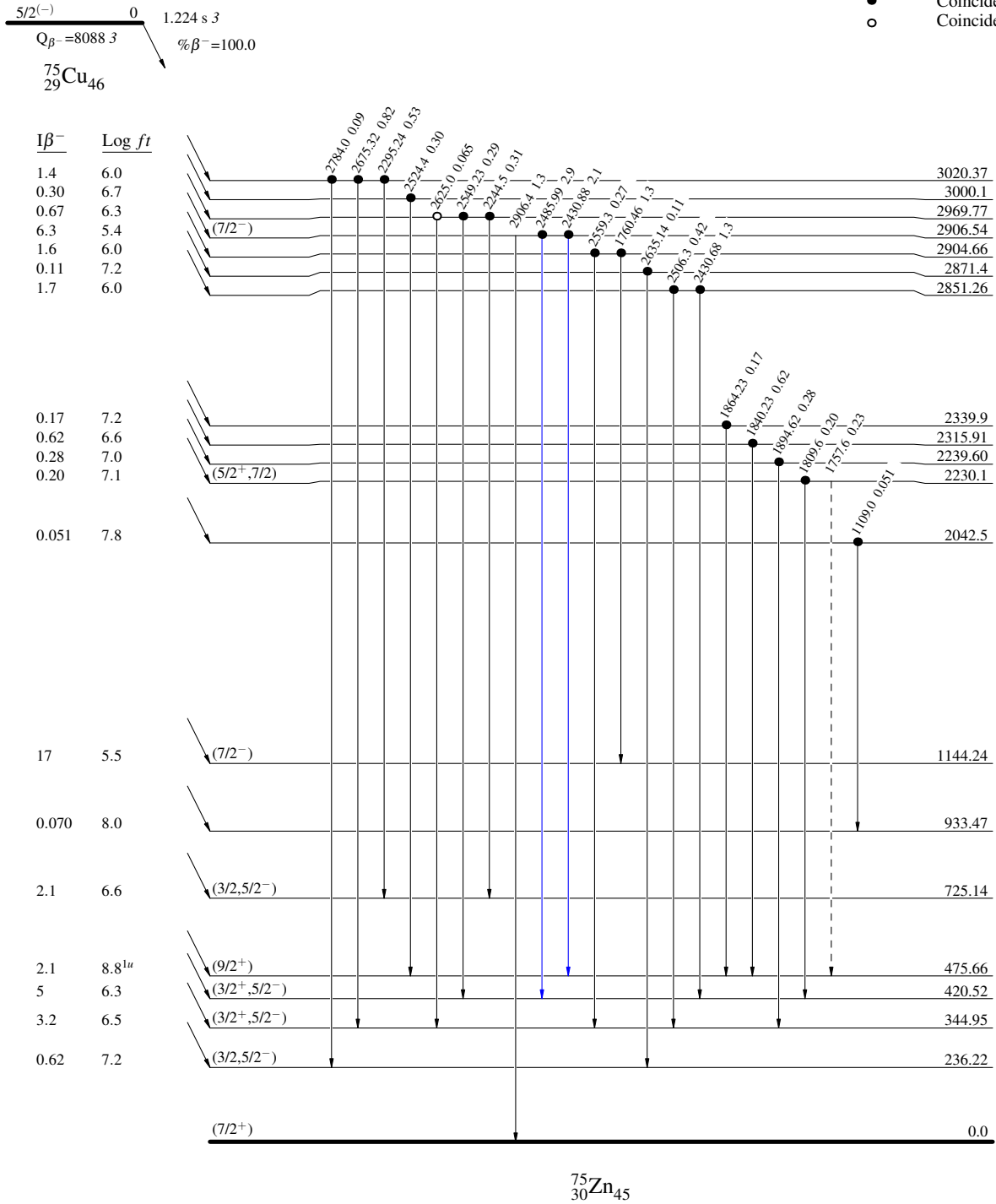
⁷⁵Cu β⁻ decay (1.224 s) 2011H01

Decay Scheme (continued)

Intensities: I_(γ+ce) per 100 parent decays

Legend

- I_γ < 2% × I_γ^{max}
- I_γ < 10% × I_γ^{max}
- I_γ > 10% × I_γ^{max}
- - - γ Decay (Uncertain)
- Coincidence
- Coincidence (Uncertain)



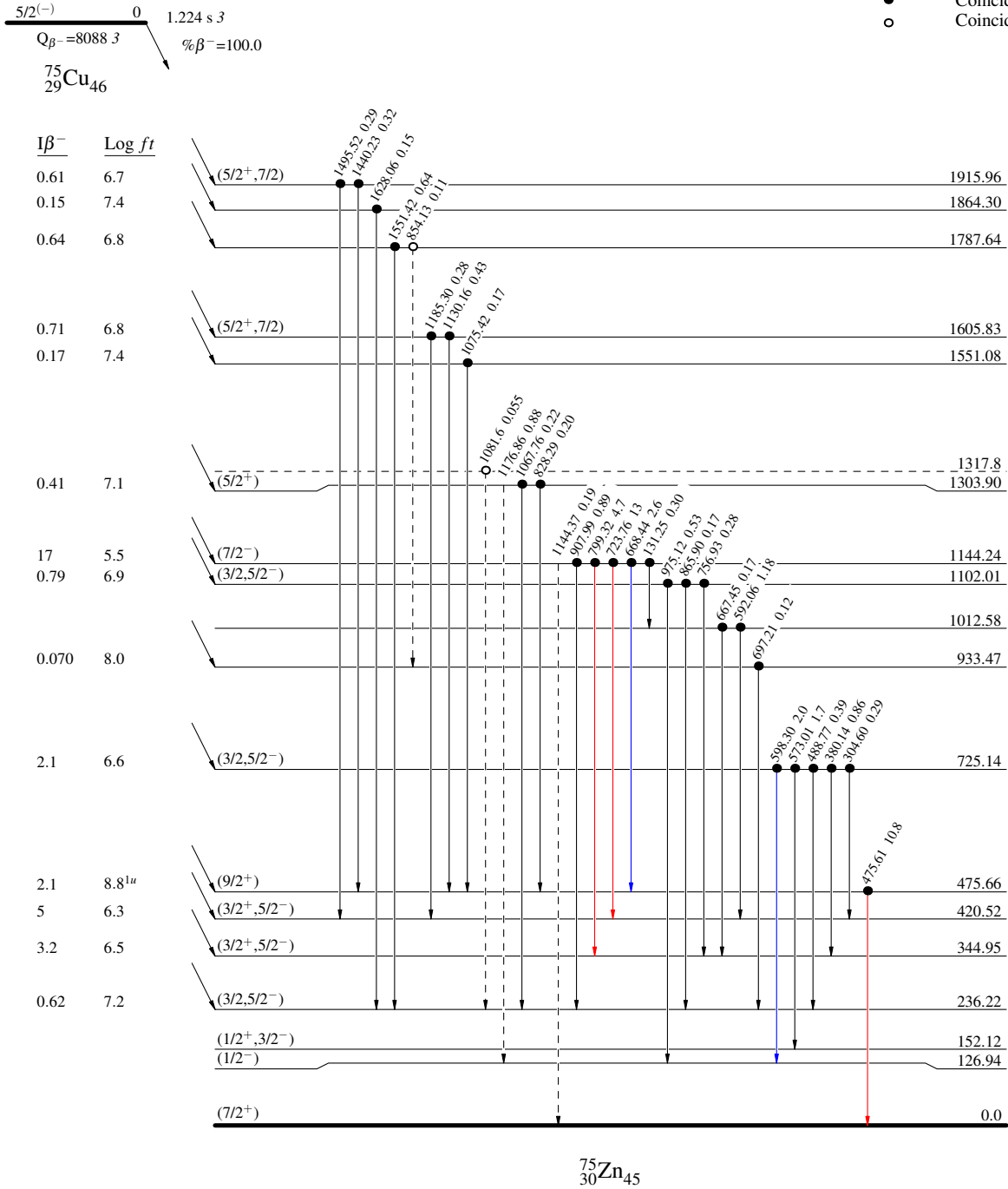
⁷⁵Cu β⁻ decay (1.224 s) 2011II01

Decay Scheme (continued)

Intensities: I_(γ+ce) per 100 parent decays

Legend

- I_γ < 2% × I_γ^{max}
- I_γ < 10% × I_γ^{max}
- I_γ > 10% × I_γ^{max}
- - - γ Decay (Uncertain)
- Coincidence
- Coincidence (Uncertain)



^{75}Cu β^- decay (1.224 s) 2011H01

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

