^{102}In ε decay 2003Gi06

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	D. De Frenne	NDS 110, 1745 (2009)	31-Dec-2008

Parent: ^{102}In: E=0.0; J$^{\pi}$=(6^{+}); $T_{1/2}$=23.3 s *1*; Q(ε)=8.95×10^{3} *12*; %ε+%β^{+} decay=100.0
^{102}In-$T_{1/2}$: from delayed gammas (2003Gi06).
^{102}In-Q(ε): from 2003Gi06. Other: 8.97E3 *11* (syst,2003Au03).
Measured Eγ, $\gamma\gamma$, Iγ, and Iβ, β strength functions using an array of 42 Ge detectors and total absorption spectroscopy (TAS) with a large NaI(Tl) detector.
All data are from 2003Gi06 as they are more complete than those of 1995Sz01.
Others: 1995Sz01.

^{102}Cd Levels

E(level)[†‡]	J$^{\pi}$[#]
0.0	0^{+}
776.61 *10*	2^{+}
1637.61 *14*	4^{+}
2034.29 *17*	(5^{+},6^{+})
2230.64 *16*	6^{+}
2386.79 *19*	(6^{+})
2402.8 *3*	
2561.09 *16*	(6)$^{+}$
2589.9 *4*	
2597.63 *21*	
2674.6 *6*	
2678.0 *8*	(6^{+})
2718.06 *20*	(8^{+})
2730.6 *20*	
2827.95 *22*	
2856.2 *9*	
2868.1 *10*	
2874.24 *18*	
2930.9 *6*	
2985.0 *5*	
3029.8 *11*	
3041.9 *11*	
3052.66 *23*	8^{+}
3058.6 *11*	
3072.7 *20*	
3098.9 *8*	
3115.4 *20*	
3128.9 *3*	
3149.7 *20*	
3193.7 *7*	
3197.2 *5*	
3218.3 *8*	
3228.8 *6*	
3263.4 *20*	
3268.1 *5*	
3271.0 *3*	
3276.9 *7*	
3339.0 *10*	
3370.9 *20*	
3381.3 *8*	
3385.1 *8*	
3389.2 *4*	

Continued on next page (footnotes at end of table)

^{102}In ε decay 2003Gi06 (continued)

^{102}Cd Levels (continued)

E(level)[†‡]	Comments
3422.2 *5*	
3449.67 *25*	
3477.6 *11*	
3481.8 *20*	
3494.7 *6*	
3498.7 *20*	
3537.6 *5*	
3552.0 *3*	
3563.2 *3*	
3572.7 *10*	E(level): 3572.2 and 3573.9 are considered as one level by the evaluator.
3577.4 *9*	
3583.3 *20*	
3590.0 *15*	
3594.9 *6*	
3598.4 *8*	
3604.8 *20*	
3609.1 *4*	
3613.3 *20*	
3637.4 *4*	
3649.0 *4*	
3689.4 *20*	
3702.9 *5*	
3724.0 *9*	E(level): 3722.8 and 3724.2 are considered as one level by evaluator.
3735.7 *20*	
3741.0 *4*	
3750.1 *11*	
3753.0 *3*	
3780.5 *7*	
3805.6 *5*	
3829.5 *4*	
3847.3 *11*	
3853.5 *5*	
3864.3 *5*	
3874.4 *15*	
3877.4 *4*	
3894.4 *8*	
3907.1 *8*	
3911.5 *4*	
3920.1 *9*	
3938.1 *7*	
3952.2 *9*	
3961.7 *5*	
3976.3 *4*	
3989.6 *10*	
3999.2 *5*	
4015.3 *7*	
4022.3 *7*	
4028.0 *11*	
4034.6 *6*	
4039.7 *7*	
4048.9 *4*	E(level): 4048.8 and 4050.9 are considered as one level by evaluator.
4071.7 *4*	
4082.4 *11*	
4085.9 *6*	
4088.1 *10*	
4103.9 *11*	
4121.4 *10*	

Continued on next page (footnotes at end of table)

^{102}In ε decay 2003Gi06 (continued)

^{102}Cd Levels (continued)

E(level)[†‡]	Comments
4131.2 *6*	
4142.4 *20*	
4147.0 *3*	
4162.0 *21*	
4175.8 *10*	
4182.8 *4*	
4189.5 *8*	
4197.2 *15*	
4206.2 *3*	
4224.1 *7*	
4227.9 *5*	
4242.5 *20*	
4252.7 *15*	
4265.63 *25*	
4282.8 *5*	
4311.7 *4*	
4332.7 *20*	
4335.2 *10*	
4340.2 *5*	
4357.9 *8*	
4360.6 *8*	
4368.1 *21*	
4373.0 *7*	
4377.4 *11*	
4385.7 *5*	
4416.0 *4*	
4424.3 *11*	
4427.6 *5*	
4440.8 *10*	
4446.0 *21*	
4453.6 *7*	
4460.1 *20*	
4479.3 *11*	
4497.1 *7*	
4512.8 *15*	E(level): 4512.1 and 4513.4 are considered as one level by evaluator.
4525.3 *5*	
4528.8 *21*	
4536.4 *9*	
4569.3 *10*	
4582.0 *6*	
4601.1 *5*	
4628.9 *10*	
4640.5 *7*	
4657.3 *20*	
4664.5 *6*	
4668.9 *15*	
4672.7 *20*	
4680.3 *7*	
4685.3 *11*	
4689.8 *7*	
4709.4 *11*	
4716.9 *20*	
4720.9 *15*	E(level): 4720.0 and 4721.9 are considered as one level by evaluator.
4735.8 *9*	
4739.7 *5*	
4754.3 *15*	
4777.3 *4*	

Continued on next page (footnotes at end of table)

^{102}In ε decay 2003Gi06 (continued)

^{102}Cd Levels (continued)

E(level)[†‡]	Comments
4797.9 *20*	
4821.1 *8*	
4824.0 *10*	
4827.8 *9*	
4845.5 *6*	
4861.8 *20*	
4872.1 *8*	
4886.4 *8*	
4906.7 *7*	
4909.6 *9*	
4915.6 *5*	E(level): 4915.4 and 4917.4 are considered as one level by evaluator.
4925.0 *5*	
4930.1 *20*	
4981.8 *5*	
4996.1 *20*	
5004.1 *20*	
5022.1 *20*	
5040.7 *9*	
5055.3 *20*	
5064.8 *8*	
5068.1 *6*	
5071.6 *11*	
5105.4 *11*	
5107.4 *7*	
5127.5 *9*	
5130.5 *11*	
5141.2 *5*	
5149.7 *21*	
5175.6 *5*	E(level): 5175.0 and 5177.0 are considered as one level by evaluator.
5182.3 *21*	
5191.3 *10*	
5193.9 *6*	
5237.5 *7*	
5246.2 *9*	E(level): 5246.4 and 5246.5 are considered as one level by evaluator.
5273.8 *12*	
5298.2 *10*	
5332.5 *10*	
5361.6 *11*	
5387.9 *11*	
5396.6 *7*	E(level): 5395.8 and 5397.2 are considered as one level by evaluator.
5399.1 *5*	E(level): 5398.6 and 5401.1 are considered as one level by evaluator.
5420.7 *9*	
5435.9 *10*	
5441.2 *20*	
5462.2 *20*	
5477.7 *20*	
5489.2 *7*	
5506.9 *7*	
5508.7 *5*	
5540.1 *8*	
5570.5 *7*	
5614.1 *20*	
5621.2 *9*	
5654.8 *5*	
5670.9 *6*	E(level): 5670.5 and 5672.3 are considered as one level by evaluator.
5691.7 *4*	E(level): 5691.5 and 5693.0 are considered as one level by evaluator.
5702.1 *10*	

Continued on next page (footnotes at end of table)

^{102}In ε decay 2003Gi06 (continued)

^{102}Cd Levels (continued)

E(level)[†‡]	Comments
5705.4 *11*	
5722.7 *6*	
5737.4 *20*	
5752.7 *6*	
5758.8 *15*	E(level): 5757.3 and 5760.1 are considered as one level by evaluator.
5769.6 *20*	
5779.8 *8*	
5787.2 *10*	
5797.3 *11*	
5811.6 *21*	
5838.9 *20*	
5849.0 *10*	
5857.8 *12*	
5861.6 *20*	
5865.6 *8*	
5879.9 *11*	
5888.3 *20*	
5895.0 *20*	
5902.4 *21*	
5909.2 *7*	E(level): 5909.0 and 5911.7 are considered as one level by evaluator.
5918.9 *8*	
5932.6 *6*	
5934.5 *5*	
5945.4 *9*	E(level): 5942.2 and 5946.1 are considered as one level by evaluator.
5948.3 *9*	
6018.9 *11*	
6057.6 *11*	
6066.3 *21*	
6083.5 *11*	
6111.2 *20*	
6146.0 *20*	
6150.4 *12*	
6169.4 *11*	
6195.6 *6*	
6225.9 *8*	E(level): 6225.0 and 6226.6 are considered as one level by evaluator.
6244.3 *20*	
6255.7 *15*	
6292.2 *6*	
6320.5 *11*	
6344.1 *11*	
6352.2 *10*	
6418.6 *15*	E(level): 6418.3 and 6419.1 are considered as one level by evaluator.
6447.9 *11*	
6504.8 *20*	
6525.8 *11*	
6554.8 *11*	
6612.1 *11*	
6650.9 *20*	
6666.8 *20*	
6688.8 *20*	
6746.7 *20*	
6800.0 *21*	
6963.8 *20*	
7007.2 *20*	
7124.1 *11*	
7361.0 *20*	

Continued on next page (footnotes at end of table)

^{102}In ε decay 2003Gi06 (continued)

^{102}Cd Levels (continued)

† Closely spaced (within less than 2 keV or so) levels whose energies overlap within the uncertainties are treated as one level by the evaluator, as advised in e-mail reply from M. Gierlik. It is possible that several other closely spaced levels (within 4 keV or so) also correspond to one level.
‡ From least-squares fit to Eγ's (by evaluator).
\# From Adopted Levels.

ε,β^+ radiations

log *ft* values have not been calculated since the ε+β^+ feedings are only the apparent values and log *ft* values from these are not meaningful following 2003GiZX.

E(decay)	E(level)	I(ε+β^+)†‡
(1.59×10^3 *12*)	7361.0	0.016 *6*
(1.83×10^3 *12*)	7124.1	0.016 *8*
(1.94×10^3 *12*)	7007.2	0.014 *10*
(1.99×10^3# *12*)	6963.8	0.03 *3*
(2.15×10^3 *12*)	6800.0	0.030 *12*
(2.20×10^3 *12*)	6746.7	0.016 *8*
(2.26×10^3 *12*)	6688.8	0.016 *8*
(2.28×10^3 *12*)	6666.8	0.030 *10*
(2.30×10^3 *12*)	6650.9	0.016 *8*
(2.34×10^3 *12*)	6612.1	0.010 *6*
(2.40×10^3 *12*)	6554.8	0.028 *10*
(2.42×10^3 *12*)	6525.8	0.016 *10*
(2.45×10^3 *12*)	6504.8	0.026 *12*
(2.50×10^3 *12*)	6447.9	0.066 *22*
(2.53×10^3 *12*)	6418.6	0.044 *21*
(2.60×10^3 *12*)	6352.2	0.048 *20*
(2.61×10^3 *12*)	6344.1	0.070 *24*
(2.63×10^3 *12*)	6320.5	0.032 *10*
(2.66×10^3 *12*)	6292.2	0.48 *9*
(2.69×10^3 *12*)	6255.7	0.15 *5*
(2.71×10^3 *12*)	6244.3	0.08 *3*
(2.72×10^3 *12*)	6225.9	0.066 *17*
(2.75×10^3 *12*)	6195.6	0.110 *22*
(2.78×10^3 *12*)	6169.4	0.47 *8*
(2.80×10^3 *12*)	6150.4	0.59 *10*
(2.80×10^3 *12*)	6146.0	0.09 *3*
(2.84×10^3 *12*)	6111.2	0.092 *20*
(2.87×10^3 *12*)	6083.5	0.024 *8*
(2.88×10^3 *12*)	6066.3	0.038 *12*
(2.89×10^3 *12*)	6057.6	0.068 *18*
(2.93×10^3 *12*)	6018.9	0.08 *3*
(3.00×10^3 *12*)	5948.3	0.064 *22*
(3.00×10^3 *12*)	5945.4	0.24 *6*
(3.02×10^3 *12*)	5934.5	0.18 *4*
(3.02×10^3 *12*)	5932.6	0.38 *6*
(3.03×10^3 *12*)	5918.9	0.22 *5*
(3.04×10^3 *12*)	5909.2	0.27 *7*
(3.05×10^3 *12*)	5902.4	0.08 *3*
(3.06×10^3 *12*)	5895.0	0.12 *3*
(3.06×10^3 *12*)	5888.3	0.070 *22*
(3.07×10^3 *12*)	5879.9	0.08 *3*
(3.08×10^3 *12*)	5865.6	0.15 *4*
(3.09×10^3 *12*)	5861.6	0.100 *20*
(3.09×10^3 *12*)	5857.8	0.028 *10*
(3.10×10^3 *12*)	5849.0	0.14 *4*
(3.11×10^3 *12*)	5838.9	0.038 *20*
(3.14×10^3 *12*)	5811.6	0.036 *16*
(3.15×10^3# *12*)	5797.3	<0.23
(3.16×10^3 *12*)	5787.2	0.13 *4*
(3.17×10^3 *12*)	5779.8	0.29 *8*
(3.18×10^3 *12*)	5769.6	0.11 *3*
(3.19×10^3 *12*)	5758.8	0.26 *7*
(3.20×10^3 *12*)	5752.7	0.52 *14*
(3.21×10^3 *12*)	5737.4	0.044 *22*
(3.23×10^3 *12*)	5722.7	0.22 *7*
(3.24×10^3 *12*)	5705.4	0.14 *3*
(3.25×10^3 *12*)	5702.1	0.018 *8*
(3.26×10^3 *12*)	5691.7	0.93 *14*
(3.28×10^3 *12*)	5670.9	0.16 *4*
(3.30×10^3 *12*)	5654.8	0.47 *11*
(3.33×10^3 *12*)	5621.2	0.048 *16*
(3.34×10^3 *12*)	5614.1	0.07 *4*
(3.38×10^3 *12*)	5570.5	0.21 *4*
(3.41×10^3 *12*)	5540.1	0.21 *4*
(3.44×10^3 *12*)	5508.7	0.14 *3*
(3.44×10^3 *12*)	5506.9	0.53 *8*
(3.46×10^3 *12*)	5489.2	0.25 *4*
(3.47×10^3 *12*)	5477.7	0.06 *3*
(3.49×10^3# *12*)	5462.2	0.03 *3*
(3.51×10^3 *12*)	5441.2	0.06 *3*
(3.51×10^3 *12*)	5435.9	0.11 *5*
(3.53×10^3 *12*)	5420.7	0.30 *6*
(3.55×10^3 *12*)	5399.1	0.28 *7*
(3.55×10^3 *12*)	5396.6	0.40 *6*
(3.56×10^3 *12*)	5387.9	0.058 *24*
(3.59×10^3 *12*)	5361.6	0.066 *20*
(3.62×10^3 *12*)	5332.5	0.060 *20*
(3.65×10^3 *12*)	5298.2	0.07 *6*
(3.68×10^3 *12*)	5273.8	0.10 *3*
(3.70×10^3 *12*)	5246.2	0.28 *8*

Continued on next page (footnotes at end of table)

^{102}In ε decay 2003Gi06 (continued)

ϵ,β^+ radiations (continued)

E(decay)	E(level)	I($\varepsilon+\beta^+$)[†‡]	E(decay)	E(level)	I($\varepsilon+\beta^+$)[†‡]
(3.71×10^3 *12*)	5237.5	0.29 *4*	(4.42×10^3 *12*)	4528.8	0.21 *4*
(3.76×10^3 *12*)	5193.9	0.092 *23*	(4.42×10^3 *12*)	4525.3	0.22 *4*
(3.76×10^3 *12*)	5191.3	0.12 *3*	(4.44×10^3 *12*)	4512.8	0.21 *9*
(3.77×10^3 *12*)	5182.3	0.038 *12*	(4.45×10^3 *12*)	4497.1	0.46 *7*
(3.77×10^3 *12*)	5175.6	0.46 *6*	(4.47×10^3 *12*)	4479.3	0.052 *18*
(3.80×10^3 *12*)	5149.7	0.11 *4*	(4.49×10^3 *12*)	4460.1	0.13 *4*
(3.81×10^3 *12*)	5141.2	0.092 *24*	(4.50×10^3 *12*)	4453.6	0.30 *5*
(3.82×10^3 *12*)	5130.5	0.10 *3*	(4.50×10^3 *12*)	4446.0	0.29 *6*
(3.82×10^3 *12*)	5127.5	0.14 *5*	(4.51×10^3 *12*)	4440.8	0.042 *20*
(3.84×10^3 *12*)	5107.4	0.054 *18*	(4.52×10^3 *12*)	4427.6	0.50 *8*
(3.84×10^3 *12*)	5105.4	0.14 *4*	(4.53×10^3 *12*)	4424.3	0.10 *3*
(3.88×10^3 *12*)	5071.6	0.072 *24*	(4.53×10^3 *12*)	4416.0	1.02 *19*
(3.88×10^3 *12*)	5068.1	0.15 *4*	(4.56×10^3 *12*)	4385.7	1.17 *15*
(3.89×10^3 *12*)	5064.8	0.100 *24*	(4.57×10^3 *12*)	4377.4	0.058 *20*
(3.89×10^3[#] *12*)	5055.3	0.014 *14*	(4.58×10^3 *12*)	4373.0	0.51 *8*
(3.91×10^3 *12*)	5040.7	0.09 *5*	(4.58×10^3 *12*)	4368.1	0.096 *24*
(3.93×10^3 *12*)	5022.1	0.18 *6*	(4.59×10^3 *12*)	4360.6	0.44 *9*
(3.95×10^3 *12*)	5004.1	0.034 *20*	(4.59×10^3 *12*)	4357.9	0.26 *5*
(3.95×10^3[#] *12*)	4996.1	0.024 *24*	(4.61×10^3 *12*)	4340.2	0.35 *6*
(3.97×10^3 *12*)	4981.8	1.01 *15*	(4.61×10^3 *12*)	4335.2	0.24 *3*
(4.02×10^3 *12*)	4930.1	0.35 *8*	(4.62×10^3 *12*)	4332.7	0.24 *5*
(4.03×10^3 *12*)	4925.0	1.13 *17*	(4.64×10^3 *12*)	4311.7	0.42 *6*
(4.03×10^3 *12*)	4915.6	0.50 *8*	(4.67×10^3 *12*)	4282.8	0.24 *5*
(4.04×10^3 *12*)	4909.6	0.60 *11*	(4.68×10^3 *12*)	4265.63	3.00 *20*
(4.04×10^3 *12*)	4906.7	0.106 *24*	(4.70×10^3 *12*)	4252.7	0.28 *5*
(4.06×10^3 *12*)	4886.4	0.12 *4*	(4.71×10^3 *12*)	4242.5	0.11 *3*
(4.08×10^3 *12*)	4872.1	0.79 *14*	(4.72×10^3 *12*)	4227.9	0.42 *7*
(4.09×10^3[#] *12*)	4861.8	0.008 *8*	(4.73×10^3 *12*)	4224.1	0.20 *5*
(4.10×10^3 *12*)	4845.5	0.32 *6*	(4.74×10^3 *12*)	4206.2	2.97 *17*
(4.12×10^3 *12*)	4827.8	0.062 *20*	(4.75×10^3 *12*)	4197.2	0.056 *24*
(4.13×10^3 *12*)	4824.0	0.17 *8*	(4.76×10^3 *12*)	4189.5	0.51 *3*
(4.13×10^3 *12*)	4821.1	0.50 *7*	(4.77×10^3 *12*)	4182.8	0.35 *10*
(4.15×10^3 *12*)	4797.9	0.13 *6*	(4.77×10^3 *12*)	4175.8	0.20 *4*
(4.17×10^3 *12*)	4777.3	0.34 *9*	(4.79×10^3 *12*)	4162.0	0.070 *14*
(4.20×10^3 *12*)	4754.3	0.094 *20*	(4.80×10^3 *12*)	4147.0	0.77 *11*
(4.21×10^3 *12*)	4739.7	1.47 *16*	(4.81×10^3 *12*)	4142.4	0.22 *4*
(4.21×10^3 *12*)	4735.8	0.16 *3*	(4.82×10^3 *12*)	4131.2	0.33 *5*
(4.23×10^3 *12*)	4720.9	0.17 *6*	(4.83×10^3 *12*)	4121.4	0.20 *4*
(4.23×10^3 *12*)	4716.9	0.14 *4*	(4.85×10^3 *12*)	4103.9	0.034 *10*
(4.24×10^3 *12*)	4709.4	0.21 *5*	(4.86×10^3 *12*)	4088.1	0.106 *24*
(4.26×10^3 *12*)	4689.8	0.18 *5*	(4.86×10^3 *12*)	4085.9	0.38 *7*
(4.26×10^3 *12*)	4685.3	0.23 *5*	(4.87×10^3 *12*)	4082.4	0.042 *16*
(4.27×10^3 *12*)	4680.3	0.35 *5*	(4.88×10^3 *12*)	4071.7	1.17 *13*
(4.28×10^3[#] *12*)	4672.7	0.03 *3*	(4.90×10^3 *12*)	4048.9	1.33 *11*
(4.28×10^3 *12*)	4668.9	0.18 *6*	(4.91×10^3 *12*)	4039.7	0.85 *6*
(4.29×10^3 *12*)	4664.5	0.33 *8*	(4.92×10^3 *12*)	4034.6	0.40 *5*
(4.29×10^3[#] *12*)	4657.3	0.03 *3*	(4.92×10^3 *12*)	4028.0	0.13 *4*
(4.31×10^3 *12*)	4640.5	0.064 *20*	(4.93×10^3 *12*)	4022.3	1.08 *14*
(4.32×10^3 *12*)	4628.9	0.16 *4*	(4.93×10^3 *12*)	4015.3	0.192 *18*
(4.35×10^3 *12*)	4601.1	0.54 *8*	(4.95×10^3 *12*)	3999.2	0.54 *8*
(4.37×10^3 *12*)	4582.0	0.50 *7*	(4.96×10^3 *12*)	3989.6	0.18 *4*
(4.38×10^3 *12*)	4569.3	0.20 *5*	(4.97×10^3 *12*)	3976.3	0.15 *3*
(4.41×10^3 *12*)	4536.4	0.15 *5*	(4.99×10^3 *12*)	3961.7	0.88 *10*

Continued on next page (footnotes at end of table)

^{102}In ε decay 2003Gi06 (continued)

ϵ,β^+ radiations (continued)

E(decay)	E(level)	I($\varepsilon+\beta^+$)[†‡]
(5.00×10^3 *12*)	3952.2	0.27 *5*
(5.01×10^3 *12*)	3938.1	0.13 *4*
(5.03×10^3 *12*)	3920.1	0.66 *10*
(5.04×10^3 *12*)	3911.5	1.29 *11*
(5.04×10^3 *12*)	3907.1	0.22 *5*
(5.06×10^3 *12*)	3894.4	0.53 *6*
(5.07×10^3 *12*)	3877.4	1.19 *15*
(5.08×10^3 *12*)	3874.4	0.22 *6*
(5.09×10^3 *12*)	3864.3	0.14 *5*
(5.10×10^3 *12*)	3853.5	0.96 *15*
(5.10×10^3 *12*)	3847.3	0.14 *3*
(5.12×10^3 *12*)	3829.5	1.14 *16*
(5.14×10^3 *12*)	3805.6	0.91 *12*
(5.17×10^3 *12*)	3780.5	0.21 *5*
(5.20×10^3 *12*)	3753.0	0.66 *7*
(5.20×10^3 *12*)	3750.1	0.14 *3*
(5.21×10^3 *12*)	3741.0	0.88 *10*
(5.21×10^3 *12*)	3735.7	0.15 *6*
(5.23×10^3 *12*)	3724.0	1.17 *9*
(5.25×10^3[#] *12*)	3702.9	0.04 *9*
(5.26×10^3 *12*)	3689.4	0.072 *20*
(5.30×10^3 *12*)	3649.0	0.77 *9*
(5.31×10^3 *12*)	3637.4	1.21 *13*
(5.34×10^3 *12*)	3613.3	0.054 *18*
(5.34×10^3 *12*)	3609.1	0.88 *11*
(5.35×10^3 *12*)	3604.8	0.13 *3*
(5.35×10^3 *12*)	3598.4	1.13 *17*
(5.36×10^3 *12*)	3594.9	0.43 *7*
(5.36×10^3 *12*)	3590.0	0.20 *4*
(5.37×10^3 *12*)	3583.3	0.55 *8*
(5.37×10^3 *12*)	3577.4	0.22 *5*
(5.38×10^3 *12*)	3572.7	0.17 *3*
(5.39×10^3 *12*)	3563.2	0.94 *10*
(5.40×10^3 *12*)	3552.0	2.90 *19*
(5.41×10^3 *12*)	3537.6	0.64 *10*
(5.45×10^3 *12*)	3498.7	0.122 *24*
(5.46×10^3 *12*)	3494.7	0.62 *8*
(5.47×10^3 *12*)	3481.8	0.128 *24*
(5.47×10^3 *12*)	3477.6	0.21 *3*
(5.50×10^3 *12*)	3449.67	1.26 *18*
(5.53×10^3 *12*)	3422.2	0.74 *9*
(5.56×10^3 *12*)	3389.2	0.80 *15*
(5.56×10^3 *12*)	3385.1	0.33 *6*
(5.57×10^3 *12*)	3381.3	0.21 *4*
(5.58×10^3 *12*)	3370.9	0.22 *4*
(5.61×10^3 *12*)	3339.0	0.088 *18*
(5.67×10^3 *12*)	3276.9	0.28 *7*
(5.68×10^3 *12*)	3271.0	0.35 *12*
(5.68×10^3 *12*)	3268.1	3.42 *17*
(5.69×10^3 *12*)	3263.4	0.180 *20*
(5.72×10^3 *12*)	3228.8	0.63 *9*
(5.73×10^3 *12*)	3218.3	0.33 *5*
(5.75×10^3 *12*)	3197.2	0.44 *9*
(5.76×10^3 *12*)	3193.7	0.15 *5*
(5.80×10^3 *12*)	3149.7	0.094 *24*
(5.82×10^3 *12*)	3128.9	1.13 *10*
(5.83×10^3 *12*)	3115.4	0.20 *4*
(5.85×10^3 *12*)	3098.9	0.23 *3*
(5.88×10^3 *12*)	3072.7	0.12 *3*
(5.89×10^3 *12*)	3058.6	0.27 *3*
(5.90×10^3[#] *12*)	3052.66	<0.1
(5.91×10^3 *12*)	3041.9	0.08 *4*
(5.92×10^3 *12*)	3029.8	0.27 *3*
(6.02×10^3 *12*)	2930.9	0.43 *6*
(6.08×10^3 *12*)	2868.1	0.09 *3*
(6.09×10^3 *12*)	2856.2	0.070 *24*
(6.12×10^3 *12*)	2827.95	1.86 *17*
(6.22×10^3 *12*)	2730.6	0.11 *3*
(6.23×10^3 *12*)	2718.06	0.9 *3*
(6.27×10^3 *12*)	2678.0	1.44 *12*
(6.28×10^3 *12*)	2674.6	1.49 *13*
(6.35×10^3 *12*)	2597.63	1.03 *15*
(6.36×10^3 *12*)	2589.9	1.20 *15*
(6.39×10^3 *12*)	2561.09	2.4 *6*
(6.56×10^3 *12*)	2386.79	1.0 *5*
(6.72×10^3[#] *12*)	2230.64	0.2 *9*
(7.31×10^3 *12*)	1637.61	7.7 *22*

[†] Deduced by evaluator from intensity balance. These feedings should be considered as approximate since there are probably many weak unobserved transitions as suggested by 2003Gi06 from the measured total absorption spectra.

[‡] Absolute intensity per 100 decays.

[#] Existence of this branch is questionable.

^{102}In ε decay 2003Gi06 (continued)

γ(^{102}Cd)

Iγ normalization: I(γ+ce)(776.6)=100, no ε+β$^+$ feeding is expected to g.s. and no other ground-state γ transitions are reported.
All transitions are assigned on the basis of γγ coin data with gates on 777γ and 861γ. No direct transitions to g.s. were found beyond the first 2$^+$ state.

E_γ[†]	I_γ[†@]	E_i(level)	J^π_i	E_f	J^π_f	Comments
156.7 *2*	3.84 *8*	2718.06	(8$^+$)	2561.09	(6)$^+$	
157.0 *8*	0.140 *20*	2561.09	(6)$^+$	2402.8		
266.5 *6*	0.16 *3*	2827.95		2561.09	(6)$^+$	
271.7 *7*	0.80 *5*	2674.6		2402.8		
287.8 *10*	1.08 *10*	2674.6		2386.79	(6$^+$)	
313.2 *1*	3.32 *6*	2874.24		2561.09	(6)$^+$	
330.4 *2*	1.94 *6*	2561.09	(6)$^+$	2230.64	6$^+$	
352.6 *8*	0.27 *5*	2386.79	(6$^+$)	2034.29	(5$^+$,6$^+$)	
368.5 *6*	0.33 *6*	2402.8		2034.29	(5$^+$,6$^+$)	
396.7 *1*	10.12 *10*	2034.29	(5$^+$,6$^+$)	1637.61	4$^+$	
423.9 *7*	0.22 *5*	2985.0		2561.09	(6)$^+$	
425.1 *7*	0.13 *6*	2827.95		2402.8		
440.9 *5*	0.39 *5*	2827.95		2386.79	(6$^+$)	
469.4 *8*	0.070 *24*	2856.2		2386.79	(6$^+$)	
469.8 *10*	0.064 *16*	3741.0		3271.0		I_γ: uncertainty of 11.0 seems a misprint.
480.8 *10*	0.08 *4*	3041.9		2561.09	(6)$^+$	
481.3 *9*	0.088 *26*	2868.1		2386.79	(6$^+$)	
487.6 *4*	1.71 *8*	2718.06	(8$^+$)	2230.64	6$^+$	
487.6 *8*	0.15 *4*	2874.24		2386.79	(6$^+$)	
499.6 *10*	0.254 *24*	3552.0		3052.66	8$^+$	
500.0 *20*	0.11 *3*	2730.6		2230.64	6$^+$	
526.9 *8*	0.17 *6*	2561.09	(6)$^+$	2034.29	(5$^+$,6$^+$)	
540.7 *10*	0.034 *10*	4103.9		3563.2		
563.0 *3*	0.99 *5*	2597.63		2034.29	(5$^+$,6$^+$)	
567.9 *4*	0.70 *4*	3128.9		2561.09	(6)$^+$	
575.7 *3*	1.11 *4*	3449.67		2874.24		
576.3 *10*	0.14 *3*	3847.3		3271.0		
593.0 *1*	31.0 *6*	2230.64	6$^+$	1637.61	4$^+$	
593.3 *3*	0.14 *5*	3864.3		3271.0		
597.4 *8*	0.19 *6*	2827.95		2230.64	6$^+$	
606.0 *9*	0.132 *26*	3877.4		3271.0		
613.5 *6*	0.146 *26*	3598.4		2985.0		
640.2 *10*	0.058 *20*	3911.5		3271.0		
644.2 *10*	0.15 *4*	2874.24		2230.64	6$^+$	
667.9 *7*	0.29 *4*	3228.8		2561.09	(6)$^+$	
676.5 *20*	0.99 *14*	3552.0		2874.24		
684.1 *3*	0.95 *5*	2718.06	(8$^+$)	2034.29	(5$^+$,6$^+$)	
688.9 *3*	0.78 *5*	3563.2		2874.24		
696.1 *7*	0.23 *3*	3098.9		2402.8		
696.7 *4*	0.35 *6*	4085.9		3389.2		
700.3 *5*	0.43 *6*	2930.9		2230.64	6$^+$	
700.5 *3*	0.46 *5*	3753.0		3052.66	8$^+$	
703.9 *8*	0.20 *4*	3422.2		2718.06	(8$^+$)	
706.4 *20*	0.14 *3*	3268.1		2561.09	(6)$^+$	
709.1 *20*	0.55 *8*	3583.3		2874.24		
712.3 *20*	0.070 *14*	4162.0		3449.67		
723.7 *20*	0.98 *16*	3598.4		2874.24		
723.8 *20*	0.100 *20*	4175.8		3449.67		
742.4 *3*	0.46 *4*	3128.9		2386.79	(6$^+$)	
749.2 *2*	13.0 *3*	2386.79	(6$^+$)	1637.61	4$^+$	

Continued on next page (footnotes at end of table)

^{102}In ε decay 2003Gi06 (continued)

γ(^{102}Cd) (continued)

E_γ †	I_γ †@	E_i(level)	J^π_i	E_f	J^π_f
762.9 20	0.094 24	3149.7		2386.79	(6+)
763.5 7	0.064 20	4034.6		3271.0	
763.7 20	0.128 24	3481.8		2718.06	(8+)
765.1 9	0.14 3	3750.1		2985.0	
765.3 6	2.58 5	2402.8		1637.61	4+
776.6 1	100.0 20	776.61	2+	0.0	0+
793.7 2	1.89 10	2827.95		2034.29	(5+,6+)
800.7 9	0.120 24	4071.7		3271.0	
810.4 6	0.086 26	3197.2		2386.79	(6+)
822.0 2	4.50 12	3052.66	8+	2230.64	6+
824.0 7	0.33 6	3385.1		2561.09	(6)+
828.4 9	0.26 5	3389.2		2561.09	(6)+
842.1 20	0.12 3	3072.7		2230.64	6+
851.4 3	0.40 6	3449.67		2597.63	
854.3 10	0.068 20	3572.7		2718.06	(8+)
861.0 1	100 2	1637.61	4+	776.61	2+
873.9 20	0.134 16	3276.9		2402.8	
876.6 20	0.180 20	3263.4		2386.79	(6+)
876.6 5	0.132 26	4147.0		3271.0	
884.6 4	1.58 6	3271.0		2386.79	(6+)
884.8 20	0.20 4	3115.4		2230.64	6+
885.5 9	0.24 3	4335.2		3449.67	
889.1 7	0.15 4	3449.67		2561.09	(6)+
890.3 8	0.16 3	4453.6		3563.2	
898.6 10	0.43 4	3128.9		2230.64	6+
919.6 5	0.032 12	3637.4		2718.06	(8+)
923.5 1	18.9 4	2561.09	(6)+	1637.61	4+
923.6 3	0.15 3	3976.3		3052.66	8+
933.8 6	0.41 6	3494.7		2561.09	(6)+
947.4 4	0.45 6	3537.6		2589.9	
952.4 8	2.40 6	2589.9		1637.61	4+
954.9 5	0.058 20	3829.5		2874.24	
959.9 2	0.91 9	2597.63		1637.61	4+
962.6 6	0.192 18	4015.3		3052.66	8+
963.1 6	0.15 5	3193.7		2230.64	6+
977.5 8	0.12 3	4680.3		3702.9	
977.9 4	0.50 8	4427.6		3449.67	
987.0 6	0.85 6	4039.7		3052.66	8+
987.0 10	0.084 16	4689.8		3702.9	
987.7 7	0.33 5	3218.3		2230.64	6+
990.4 9	0.11 3	3552.0		2561.09	(6)+
994.5 7	0.21 4	3381.3		2386.79	(6+)
994.5 5	<0.086	4265.63		3271.0	
995.5 10	0.27 3	3029.8		2034.29	(5+,6+)
997.9 10	0.34 8	3228.8		2230.64	6+
1002.1 10	0.128 12	3563.2		2561.09	(6)+
1002.5 5	0.124 12	3389.2		2386.79	(6+)
1024.3 10	0.27 3	3058.6		2034.29	(5+,6+)
1034.4 7	0.12 4	3594.9		2561.09	(6)+
1034.7 4	0.20 4	3753.0		2718.06	(8+)
1035.7 7	0.10 3	3422.2		2386.79	(6+)
1037.6 6	0.35 6	4022.3		2985.0	
1038.3 6	2.51 12	3268.1		2230.64	6+
1040.4 7	1.44 12	2678.0	(6+)	1637.61	4+
1045.9 8	0.66 10	3920.1		2874.24	
1064.6 10	0.14 3	4453.6		3389.2	

Continued on next page (footnotes at end of table)

^{102}In ε decay 2003Gi06 (continued)

γ(^{102}Cd) (continued)

E_γ[†]	I_γ[†@]	E_i(level)	J_i^π	E_f	J_f^π
1064.9 9	0.14 5	3449.67		2386.79	(6$^+$)
1065.9 10	0.43 5	3894.4		2827.95	
1079.1 8	0.066 20	3907.1		2827.95	
1136.0 3	0.22 4	4525.3		3389.2	
1136.8 7	0.51 3	4189.5		3052.66	8$^+$
1142.4 6	0.40 4	3702.9		2561.09	(6)$^+$
1144.4 20	0.030 12	4197.2		3052.66	8$^+$
1147.4 10	0.73 12	4022.3		2874.24	
1150.4 20	0.22 3	3552.0		2402.8	
1152.2[a] 10	0.38[a] 6	3537.6		2386.79	(6$^+$)
1152.2[a] 10	0.118[a] 24	4206.2		3052.66	8$^+$
1158.6 10	0.150 24	3389.2		2230.64	6$^+$
1162.9 7	0.35 8	3197.2		2034.29	(5$^+$,6$^+$)
1165.9 10	0.12 4	3552.0		2386.79	(6$^+$)
1171.0 20	0.100 20	3572.7		2402.8	
1176.6 10	0.092 26	3563.2		2386.79	(6$^+$)
1185.8 20	0.15 3	3590.0		2402.8	
1191.5 9	0.19 5	3422.2		2230.64	6$^+$
1207.4 8	0.056 20	3594.9		2386.79	(6$^+$)
1208.3 10	0.052 18	4479.3		3271.0	
1210.6 10	0.060 20	5064.8		3853.5	
1211.8 8	0.056 18	4265.63		3052.66	8$^+$
1222.4 4	0.20 6	3609.1		2386.79	(6$^+$)
1230.5 9	0.23 4	4680.3		3449.67	
1232.8 7	0.19 4	3268.1		2034.29	(5$^+$,6$^+$)
1236.6 20	3.51 24	2874.24		1637.61	4$^+$
1239.7 9	0.16 4	4628.9		3389.2	
1243.7 10	0.19 6	3276.9		2034.29	(5$^+$,6$^+$)
1244.0 10	0.20 6	3805.6		2561.09	(6)$^+$
1246.8 5	0.09 4	3649.0		2402.8	
1251.2 20	0.11 4	3637.4		2386.79	(6$^+$)
1256.6 7	0.12 3	4131.2		2874.24	
1263.4 10	0.21 5	3494.7		2230.64	6$^+$
1276.8 20	0.09 4	3874.4		2597.63	
1304.4 20	0.062 16	4754.3		3449.67	
1304.7 9	0.088 18	3339.0		2034.29	(5$^+$,6$^+$)
1305.3 10	0.088 14	4357.9		3052.66	8$^+$
1311.5 10	0.024 20	4582.0		3271.0	
1315.4 20	0.096 24	4368.1		3052.66	8$^+$
1321.4 3	1.27 8	3552.0		2230.64	6$^+$
1332.5 4	0.63 10	4206.2		2874.24	
1336.6 20	0.22 4	3370.9		2034.29	(5$^+$,6$^+$)
1346.2 20	0.15 4	3907.1		2561.09	(6)$^+$
1346.6 20	0.090 22	3577.4		2230.64	6$^+$
1346.6 8	0.16 3	4735.8		3389.2	
1354.4 10	0.43 8	3389.2		2034.29	(5$^+$,6$^+$)
1354.4 10	0.16 3	3741.0		2386.79	(6$^+$)
1354.4 7	0.12 4	4227.9		2874.24	
1363.2 10	0.18 3	4416.0		3052.66	8$^+$
1364.0 20	0.25 5	3594.9		2230.64	6$^+$
1375.3 6	0.39 8	4360.6		2985.0	
1378.3 5	0.52 7	3609.1		2230.64	6$^+$
1387.4 20	0.25 4	3422.2		2034.29	(5$^+$,6$^+$)
1387.7[a] 5	0.072[a] 24	5570.5		4182.8	
1387.7[a] 5	0.070[a] 24	5670.9		4282.8	
1391.1 8	0.27 5	3952.2		2561.09	(6)$^+$
1391.6 4	0.43 6	4265.63		2874.24	
1395.1 10	0.15 4	3780.5		2386.79	(6$^+$)
1401.2 10	0.15 4	3961.7		2561.09	(6)$^+$
1407.3 5	0.31 6	3637.4		2230.64	6$^+$
1416.6 8	0.50 4	3449.67		2034.29	(5$^+$,6$^+$)
1417.9 5	0.34 6	3649.0		2230.64	6$^+$
1424.3 20	0.22 4	4142.4		2718.06	(8$^+$)
1426.2 20	0.12 4	3829.5		2402.8	
1428.5 9	0.18 4	3989.6		2561.09	(6)$^+$
1437.5 3	0.288 14	4311.7		2874.24	
1437.8 6	0.13 3	4265.63		2827.95	
1438.1 4	0.54 8	3999.2		2561.09	(6)$^+$
1443.3 10	0.21 3	3477.6		2034.29	(5$^+$,6$^+$)
1454.5 8	0.082 20	4282.8		2827.95	
1460.9 20	0.18 4	4048.9		2589.9	
1464.4 20	0.122 24	3498.7		2034.29	(5$^+$,6$^+$)
1465.2 8	0.048 16	4182.8		2718.06	(8$^+$)
1466.0 4	0.35 6	4340.2		2874.24	
1466.4 8	0.18 3	4915.6		3449.67	
1466.9 10	0.13 4	4028.0		2561.09	(6)$^+$
1471.6 20	0.088 26	4739.7		3271.0	
1473.1 6	0.052 12	5175.6		3702.9	
1476.1 20	0.21 4	4528.8		3052.66	8$^+$
1487.8 3	1.07 10	4048.9		2561.09	(6)$^+$
1488.2 6	1.61 10	4206.2		2718.06	(8$^+$)
1488.5 9	0.054 18	5040.7		3552.0	
1491.1 10	0.11 3	3877.4		2386.79	(6$^+$)
1492.2 10	0.10 3	3894.4		2402.8	
1493.6 9	1.13 8	3724.0		2230.64	6$^+$
1510.3 7	0.18 6	4071.7		2561.09	(6)$^+$
1510.4 4	0.55 6	3741.0		2230.64	6$^+$
1517.5 6	0.106 24	4906.7		3389.2	
1519.3 10	0.20 6	3552.0		2034.29	(5$^+$,6$^+$)
1519.3 9	0.018 8	5702.1		4182.8	
1524.1 4	0.59 3	3911.5		2386.79	(6$^+$)
1525.5 20	0.032 24	4085.9		2561.09	(6)$^+$
1527.1 20	0.14 3	3563.2		2034.29	(5$^+$,6$^+$)
1534.3 10	<0.10	4981.8		3449.67	
1534.6 5	0.22 3	5237.5		3702.9	
1536.3 10	0.072 20	3938.1		2402.8	
1543.1 10	0.13 4	3577.4		2034.29	(5$^+$,6$^+$)
1548.8 10	0.060 20	4601.1		3052.66	8$^+$
1549.3 20	0.17 5	4821.1		3271.0	
1550.7 8	0.060 24	3938.1		2386.79	(6$^+$)
1555.4 6	0.054 18	5107.4		3552.0	
1557.0 20	0.046 18	3590.0		2034.29	(5$^+$,6$^+$)
1559.0 6	0.43 6	3961.7		2402.8	
1570.5 20	0.128 26	3604.8		2034.29	(5$^+$,6$^+$)
1575.0 9	0.23 5	3805.6		2230.64	6$^+$
1579.0 20	0.054 18	3613.3		2034.29	(5$^+$,6$^+$)
1599.0 4	0.54 14	3829.5		2230.64	6$^+$
1614.3 7	0.34 5	3649.0		2034.29	(5$^+$,6$^+$)
1623.8 20	0.41 10	3853.5		2230.64	6$^+$
1630.2 20	0.58 10	3268.1		1637.61	4$^+$
1644.6 9	0.43 6	4206.2		2561.09	(6)$^+$
1646.8 4	1.00 14	3877.4		2230.64	6$^+$

Continued on next page (footnotes at end of table)

^{102}In ε decay 2003Gi06 (continued)

$\gamma(^{102}Cd)$ (continued)

E_γ[†]	I_γ[†@]	E_i(level)	J_i^π	E_f	J_f^π
1647.8 *8*	0.34 *4*	4034.6		2386.79	(6^+)
1648.6 *4*	0.098 *20*	4777.3		3128.9	
1655.1 *20*	0.072 *20*	3689.4		2034.29	$(5^+,6^+)$
1659.3 *10*	0.058 *20*	4377.4		2718.06	(8^+)
1661.6 *20*	0.076 *26*	4048.9		2386.79	(6^+)
1666.3 *8*	0.14 *4*	4227.9		2561.09	$(6)^+$
1668.2 *20*	0.11 *4*	3702.9		2034.29	$(5^+,6^+)$
1668.2 *10*	0.14 *4*	4497.1		2827.95	
1682.3 *10*	0.072 *24*	5071.6		3389.2	
1682.6 *7*	0.64 *10*	3911.5		2230.64	6^+
1685.2 *7*	0.27 *3*	4071.7		2386.79	(6^+)
1685.3 *9*	0.106 *24*	4088.1		2402.8	
1687.0 *9*	0.084 *24*	4739.7		3052.66	8^+
1691.5 *4*	0.092 *24*	5141.2		3449.67	
1695.6 *10*	0.042 *16*	4082.4		2386.79	(6^+)
1704.7 *20*	0.18 *8*	4265.63		2561.09	$(6)^+$
1716.5 *5*	0.084 *20*	4845.5		3128.9	
1730.7 *7*	0.23 *5*	3961.7		2230.64	6^+
1734.6 *9*	0.20 *4*	4121.4		2386.79	(6^+)
1736.2 *10*	0.10 *3*	5273.8		3537.6	
1743.7 *8*	0.048 *16*	5621.2		3877.4	
1744.2 *5*	0.062 *20*	5193.9		3449.67	
1744.9 *9*	0.21 *4*	4131.2		2386.79	(6^+)
1745.3 *8*	0.062 *10*	3780.5		2034.29	$(5^+,6^+)$
1745.9 *10*	0.068 *18*	6057.6		4311.7	
1751.2 *8*	1.296 *16*	3389.2		1637.61	4^+
1754.6 *20*	0.038 *12*	6066.3		4311.7	
1760.4 *20*	0.11 *4*	5149.7		3389.2	
1761.4 *20*	0.14 *4*	4147.0		2386.79	(6^+)
1771.4 *6*	0.40 *8*	3805.6		2034.29	$(5^+,6^+)$
1771.4 *20*	0.29 *6*	4446.0		2674.6	
1780.1 *5*	0.12 *3*	4182.8		2402.8	
1789.6 *10*	0.10 *3*	4175.8		2386.79	(6^+)
1795.3 *10*	0.36 *6*	3829.5		2034.29	$(5^+,6^+)$
1813.3 *20*	0.55 *8*	3449.67		1637.61	4^+
1816.3 *20*	0.04 *4*	4689.8		2874.24	
1818.4 *9*	0.066 *20*	4206.2		2386.79	(6^+)
1821.0 *8*	0.096 *24*	4224.1		2402.8	
1841.1 *4*	0.60 *10*	4071.7		2230.64	6^+
1854.9 *5*	0.49 *7*	4416.0		2561.09	$(6)^+$
1855.7 *20*	0.11 *3*	4242.5		2386.79	(6^+)
1865.7 *20*	0.13 *4*	4252.7		2386.79	(6^+)
1878.8 *3*	1.36 *8*	4265.63		2386.79	(6^+)
1881.1 *20*	0.066 *20*	5420.7		3537.6	
1883.0 *4*	0.33 *6*	4601.1		2718.06	(8^+)
1883.9 *5*	0.044 *14*	6195.6		4311.7	
1895.8 *8*	0.27 *3*	4282.8		2386.79	(6^+)
1899.9 *10*	0.042 *20*	5175.6		3276.9	
1900.7 *10*	0.024 *8*	6083.5		4182.8	
1916.1 *3*	0.50 *10*	4147.0		2230.64	6^+
1926.7 *10*	0.050 *12*	5489.2		3563.2	
1926.9 *20*	0.15 *6*	3563.2		1637.61	4^+
1936.4 *9*	0.040 *12*	5064.8		3128.9	
1942.2 *10*	0.27 *5*	2718.06	(8^+)	776.61	2^+
1943.8 *10*	0.038 *12*	6225.9		4282.8	
1951.1 *10*	0.24 *8*	4182.8		2230.64	6^+

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^{102}In ε decay 2003Gi06 (continued)

γ(^{102}Cd) (continued)

E_γ[†]	I_γ[†@]	E_i(level)	J^π_i	E_f	J^π_f
1951.1 20	0.08 8	4512.8		2561.09	(6)$^+$
1971.2 20	0.16 6	3609.1		1637.61	4$^+$
1975.3 7	0.12 4	4206.2		2230.64	6$^+$
1982.9 7	0.11 3	4385.7		2402.8	
1996.9 7	0.16 4	4227.9		2230.64	6$^+$
1998.8 5	0.76 10	3637.4		1637.61	4$^+$
1998.8 9	0.26 8	4385.7		2386.79	(6$^+$)
1998.8 20	0.14 4	4716.9		2718.06	(8$^+$)
2008.2 9	0.20 5	4569.3		2561.09	(6)$^+$
2008.8 10	0.032 10	6320.5		4311.7	
2021.3 10	0.36 8	4739.7		2718.06	(8$^+$)
2022.0 10	0.32 6	4582.0		2561.09	(6)$^+$
2022.2 20	0.15 3	4252.7		2230.64	6$^+$
2035.0 5	0.80 14	4265.63		2230.64	6$^+$
2037.5 10	0.10 3	4424.3		2386.79	(6$^+$)
2053.3 20	0.038 12	5182.3		3128.9	
2065.1 20	0.030 10	5193.9		3128.9	
2065.5 20	0.08 3	3702.9		1637.61	4$^+$
2079.4 6	0.064 20	4640.5		2561.09	(6)$^+$
2079.9[a] 20	0.040[a] 12	4668.9		2589.9	
2079.9[a] 20	0.032[a] 12	4754.3		2674.6	
2080.8 20	0.18 4	4311.7		2230.64	6$^+$
2082.2 10	0.032 12	5934.5		3853.5	
2085.2 20	0.040 20	3724.0		1637.61	4$^+$
2095.9 20	0.11 3	4497.1		2402.8	
2098.1 20	0.15 6	3735.7		1637.61	4$^+$
2102.0 20	0.24 5	4332.7		2230.64	6$^+$
2103.1 8	0.33 5	4821.1		2718.06	(8$^+$)
2103.4 5	0.33 8	4664.5		2561.09	(6)$^+$
2120.0 9	0.094 24	5670.9		3552.0	
2127.1 10	0.17 4	4357.9		2230.64	6$^+$
2142.2 8	0.38 8	4739.7		2597.63	
2142.3 6	0.51 8	4373.0		2230.64	6$^+$
2148.3[a] 10	0.058[a] 16	4182.8		2034.29	(5$^+$,6$^+$)
2148.3[a] 10	0.21[a] 5	4709.4		2561.09	(6)$^+$
2149.3 9	0.07 3	4536.4		2386.79	(6$^+$)
2154.9 10	0.29 6	4385.7		2230.64	6$^+$
2159.0 20	0.16 6	4720.9		2561.09	(6)$^+$
2168.4 20	0.08 3	3805.6		1637.61	4$^+$
2178.4 10	0.18 6	4739.7		2561.09	(6)$^+$
2185.3 4	0.30 4	4416.0		2230.64	6$^+$
2187.5 5	0.16 8	4777.3		2589.9	
2190.2 10	0.10 4	4224.1		2034.29	(5$^+$,6$^+$)
2190.7 5	0.108 20	5175.6		2985.0	
2192.6 20	0.064 22	3829.5		1637.61	4$^+$
2193.0 10	0.030 10	4582.0		2386.79	(6$^+$)
2206.9 4	0.94 16	4925.0		2718.06	(8$^+$)
2215.9 5	0.64 10	3853.5		1637.61	4$^+$
2224.0 10	0.076 20	5787.2		3563.2	
2236.8[&] 20	0.13[&‡] 6	3874.4		1637.61	4$^+$
2236.8[&] 20	0.13[&‡] 6	4797.9		2561.09	(6)$^+$
2237.8 8	0.062 20	4827.8		2589.9	
2262.9 9	0.17 8	4824.0		2561.09	(6)$^+$
2277.0 7	0.13 3	4311.7		2034.29	(5$^+$,6$^+$)
2282.8 20	0.13 4	4512.8		2230.64	6$^+$

E_γ[†]	I_γ[†@]	E_i(level)	E_f	J^π_f
2300.0 10	0.13 3	5175.6	2874.24	
2302.6 10	0.054 18	4689.8	2386.79	(6$^+$)
2320.1 10	0.028 10	5857.8	3537.6	
2322.9 20	0.07 4	3961.7	1637.61	4$^+$
2334.8 20	0.008 8	4720.9	2386.79	(6$^+$)
2345.5 10	0.044 14	5909.2	3563.2	
2348.4 20	0.18 6	4909.6	2561.09	(6)$^+$
2348.4 10	0.12 4	5399.1	3052.66	8$^+$
2350.0 5	0.15 4	5068.1	2718.06	(8$^+$)
2353.0 20	0.13 3	4582.0	2230.64	6$^+$
2359.4 20	0.064 22	5909.2	3552.0	
2363.6 10	0.19 6	4925.0	2561.09	(6)$^+$
2369.5 20	0.15 4	4601.1	2230.64	6$^+$
2389.5 7	0.082 26	4777.3	2386.79	(6$^+$)
2409.4 8	0.14 5	5127.5	2718.06	(8$^+$)
2419.1 20	0.18 6	4981.8	2561.09	(6)$^+$
2437.2 20	0.14 5	4668.9	2230.64	6$^+$
2454.6 10	0.23 5	4685.3	2230.64	6$^+$
2461.0 20	0.18 6	5022.1	2561.09	(6)$^+$
2482.9 10	0.056 18	4886.4	2402.8	
2500.3 10	0.048 24	5175.6	2674.6	
2508.5 8	0.38 9	4739.7	2230.64	6$^+$
2528.6[#] 10	0.17[#] 5	4915.6	2386.79	(6$^+$)
2528.6[#] 20	0.17[#] 6	5246.2	2718.06	(8$^+$)
2544.3 10	0.14 4	5105.4	2561.09	(6)$^+$
2559.6 20	0.026 20	4197.2	1637.61	4$^+$
2569.3 10	0.048 16	5396.6	2827.95	
2578.4 8	0.096 24	4981.8	2402.8	
2614.4 9	0.060 20	5332.5	2718.06	(8$^+$)
2615.3 20	0.24 5	4845.5	2230.64	6$^+$
2638.9 6	0.64 12	5691.7	3052.66	8$^+$
2641.4 7	0.79 14	4872.1	2230.64	6$^+$
2679.7 20	0.35 8	4909.6	2230.64	6$^+$
2699.4[#] 20	0.35[#] 8	4930.1	2230.64	6$^+$
2699.4 6	0.35 12	5752.7	3052.66	8$^+$
2702.6 20	0.070 20	5420.7	2718.06	(8$^+$)
2714.9 20	0.026 10	6418.6	3702.9	
2717.3 10	0.09 4	5435.9	2718.06	(8$^+$)
2726.4 20	0.046 20	4360.6	1637.61	4$^+$
2743.7 10	0.10 3	5130.5	2386.79	(6$^+$)
2744.6 10	0.05 18	5797.3	3052.66	8$^+$
2748.3 8	0.51 10	4385.7	1637.61	4$^+$
2750.4 9	0.56 12	4981.8	2230.64	6$^+$
2758.9 20	0.036 16	5811.6	3052.66	8$^+$
2779.4 20	0.05 16	4416.0	1637.61	4$^+$
2785.6 20	0.046 16	3563.2	776.61	2$^+$
2803.1 10	0.042 20	4440.8	1637.61	4$^+$
2827.2 10	0.084 26	5879.9	3052.66	8$^+$
2835.9 10	0.028 12	6225.9	3389.2	
2851.8 10	0.028 10	6554.8	3702.9	
2860.0[a] 10	0.21[a] 5	4497.1	1637.61	4$^+$
2860.0[a] 10	0.16[a] 5	5420.7	2561.09	(6)$^+$
2866.4 20	0.016 16	5540.1	2674.6	
2866.4 10	0.084 26	5918.9	3052.66	8$^+$
2875.1 10	0.074 24	4909.6	2034.29	(5$^+$,6$^+$)

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^{102}In ε decay 2003Gi06 (continued)

γ(^{102}Cd) (continued)

E_γ[†]	I_γ[†@]	E_i(level)	J_i^π	E_f	J_f^π
2876.8 *20*	0.016 *16*	5435.9		2561.09	$(6)^+$
2900.3 *20*	0.08 *4*	4536.4		1637.61	4^+
2918.9 *8*	0.068 *20*	5508.7		2589.9	
2945.4 *9*	0.108 *10*	5506.9		2561.09	$(6)^+$
2958.8 *10*	0.066 *20*	5361.6		2402.8	
2962.9 *9*	0.048 *20*	6352.2		3389.2	
2963.4 *20*	0.11 *6*	3741.0		776.61	2^+
2976.1 *20*	0.054 *22*	5691.7		2718.06	(8^+)
2994.2 *20*	0.088 *26*	5396.6		2402.8	
3001.1 *10*	0.058 *24*	5387.9		2386.79	(6^+)
3011.8 *5*	0.16 *5*	5399.1		2386.79	(6^+)
3019.6 *20*	0.028 *28*	4657.3		1637.61	4^+
3035.0 *20*	0.03 *3*	4672.7		1637.61	4^+
3058.6 *10*	0.066 *22*	6447.9		3389.2	
3067.5 *9*	0.07 *6*	5298.2		2230.64	6^+
3090.9 *20*	0.06 *3*	5477.7		2386.79	(6^+)
3093.4 *7*	0.28 *8*	5654.8		2561.09	$(6)^+$
3130.5 *5*	0.16 *5*	5691.7		2561.09	$(6)^+$
3130.9 *9*	0.14 *4*	5849.0		2718.06	(8^+)
3164.5[&] *10*	0.17[&‡] *6*	5752.7		2589.9	
3164.5[&] *10*	0.17[&‡] *6*	6292.2		3128.9	
3165.2 *10*	0.26 *5*	5396.6		2230.64	6^+
3190.7 *10*	0.09 *6*	5909.2		2718.06	(8^+)
3196.3 *20*	0.18 *6*	5758.8		2561.09	$(6)^+$
3200.6 *10*	0.14 *4*	5918.9		2718.06	(8^+)
3213.6 *20*	0.03 *3*	5246.2		2034.29	$(5^+,6^+)$
3224.3 *20*	0.098 *26*	5945.4		2718.06	(8^+)
3225.9 *20*	0.05 *3*	5787.2		2561.09	$(6)^+$
3236.8 *20*	0.030 *12*	6800.0		3563.2	
3249.3 *10*	0.06 *3*	4886.4		1637.61	4^+
3258.0 *9*	0.07 *3*	5489.2		2230.64	6^+
3267.9 *6*	0.084 *26*	5654.8		2386.79	(6^+)
3277.7 *7*	0.040 *14*	5508.7		2230.64	6^+
3277.8 *6*	0.15 *5*	4915.6		1637.61	4^+
3305.2 *20*	0.072 *26*	5691.7		2386.79	(6^+)
3309.2 *8*	0.19 *3*	5540.1		2230.64	6^+
3335.8 *5*	0.18 *6*	5722.7		2386.79	(6^+)
3343.9 *10*	0.12 *3*	4981.8		1637.61	4^+
3344.2 *5*	0.070 *22*	5934.5		2589.9	
3349.9 *20*	0.068 *26*	5909.2		2561.09	$(6)^+$
3358.4 *20*	0.024 *24*	4996.1		1637.61	4^+
3366.4 *20*	0.034 *20*	5004.1		1637.61	4^+
3383.4 *20*	0.07 *4*	5614.1		2230.64	6^+
3403.6 *20*	0.04 *4*	5040.7		1637.61	4^+
3417.6 *20*	0.014 *14*	5055.3		1637.61	4^+
3421.1 *10*	0.016 *8*	7124.1		3702.9	
3424.8 *10*	0.06 *6*	5654.8		2230.64	6^+
3457.7 *10*	0.08 *3*	6018.9		2561.09	$(6)^+$
3473.1 *10*	0.016 *10*	6525.8		3052.66	8^+
3474.7[a] *10*	0.030[a] *8*	5508.7		2034.29	$(5^+,6^+)$
3474.7[a] *10*	0.14[a] *3*	5705.4		2230.64	6^+
3478.8 *8*	0.044 *26*	5865.6		2386.79	(6^+)
3499.5 *20*	0.076 *26*	5902.4		2402.8	
3529.4 *10*	0.076 *26*	5932.6		2402.8	
3536.6 *20*	0.080 *20*	5175.6		1637.61	4^+
3549.0 *8*	0.26 *8*	5779.8		2230.64	6^+
3553.6 *10*	0.12 *3*	5191.3		1637.61	4^+
3559.4 *10*	0.010 *6*	6612.1		3052.66	8^+
3599.0 *20*	0.068 *20*	5237.5		1637.61	4^+
3607.9 *10*	0.082 *26*	5246.2		1637.61	4^+
3619.2 *20*	0.046 *14*	5654.8		2034.29	$(5^+,6^+)$
3683.1 *20*	0.08 *3*	6244.3		2561.09	$(6)^+$
3683.4 *20*	0.13 *4*	4460.1		776.61	2^+
3702.0 *6*	0.23 *5*	5932.6		2230.64	6^+
3715.5 *10*	0.14 *5*	5945.4		2230.64	6^+
3725.8 *20*	0.08 *3*	5758.8		2034.29	$(5^+,6^+)$
3762.7 *20*	0.28 *8*	6150.4		2386.79	(6^+)
3764.9 *20*	0.042 *20*	6169.4		2402.8	
3782.8 *20*	0.20 *6*	6169.4		2386.79	(6^+)
3803.5 *20*	0.06 *3*	5441.2		1637.61	4^+
3824.5 *20*	0.03 *3*	5462.2		1637.61	4^+
3827.2 *20*	0.100 *20*	5861.6		2034.29	$(5^+,6^+)$
3851.3 *20*	0.126 *24*	5489.2		1637.61	4^+
3860.6 *20*	0.12 *3*	5895.0		2034.29	$(5^+,6^+)$
3869.7 *10*	0.42 *8*	5506.9		1637.61	4^+
3869.7 *20*	0.12 *4*	6255.7		2386.79	(6^+)
3897.7 *20*	0.074 *20*	5932.6		2034.29	$(5^+,6^+)$
3920.7 *20*	0.14 *4*	6150.4		2230.64	6^+
3932.6 *20*	0.14 *3*	5570.5		1637.61	4^+
3941.2 *10*	0.070 *24*	6344.1		2402.8	
4060.2 *10*	0.22 *5*	6292.2		2230.64	6^+
4085.1 *20*	0.008 *8*	4861.8		776.61	2^+
4085.7 *20*	0.038 *12*	5722.7		1637.61	4^+
4099.7 *20*	0.044 *22*	5737.4		1637.61	4^+
4111.6 *20*	0.086 *26*	6146.0		2034.29	$(5^+,6^+)$
4131.9 *20*	0.11 *3*	5769.6		1637.61	4^+
4137.0 *20*	0.15 *4*	6169.4		2034.29	$(5^+,6^+)$
4201.2 *20*	0.038 *20*	5838.9		1637.61	4^+
4227.7 *20*	0.11 *3*	5865.6		1637.61	4^+
4250.6 *20*	0.070 *22*	5888.3		1637.61	4^+
4259.4 *20*	0.062 *20*	6292.2		2034.29	$(5^+,6^+)$
4296.8 *7*	0.080 *20*	5934.5		1637.61	4^+
4310.6 *8*	0.064 *22*	5948.3		1637.61	4^+
4402.6 *20*	0.026 *26*	6963.8		2561.09	$(6)^+$
4473.5 *20*	0.092 *20*	6111.2		1637.61	4^+
4512.4 *20*	0.17 *4*	6150.4		1637.61	4^+
4530.9 *20*	0.082 *26*	6169.4		1637.61	4^+
4557.6 *20*	0.066 *16*	6195.6		1637.61	4^+
4617.1 *20*	0.026 *12*	6255.7		1637.61	4^+
4654.0 *10*	0.026 *14*	6292.2		1637.61	4^+
4781.5 *20*	0.018 *18*	6418.6		1637.61	4^+
4867.1 *20*	0.026 *12*	6504.8		1637.61	4^+
4972.8 *20*	0.014 *10*	7007.2		2034.29	$(5^+,6^+)$
5003.5 *20*	0.028 *10*	5779.8		776.61	2^+
5013.2 *20*	0.016 *8*	6650.9		1637.61	4^+
5029.1 *20*	0.030 *10*	6666.8		1637.61	4^+
5051.1 *20*	0.016 *8*	6688.8		1637.61	4^+
5109.0 *20*	0.016 *8*	6746.7		1637.61	4^+
5326.6 *20*	0.016 *6*	7361.0		2034.29	$(5^+,6^+)$

Continued on next page (footnotes at end of table)

^{102}In ε decay 2003Gi06 (continued)

$\gamma(^{102}Cd)$ (continued)

† From priv. comm. (2003GiZX) received as e-mail reply on June 26 and July 8,2003 from M. Gierlik of 2003Gi06. Intensities are not corrected for summing effects which could amount to 5% for 100% cascades. As suggested by the total absorption spectroscopy (tas), a large number of weak γ rays remain unobserved.

‡ Same intensity is quoted for two components but with different uncertainties. It is not clear whether the values correspond to divided or undivided intensities.

The energy and intensity values are the same for the doublet, but different uncertainties are quoted. It is not clear whether the values correspond to divided or undivided intensities.

@ Absolute intensity per 100 decays.

& Multiply placed with undivided intensity.

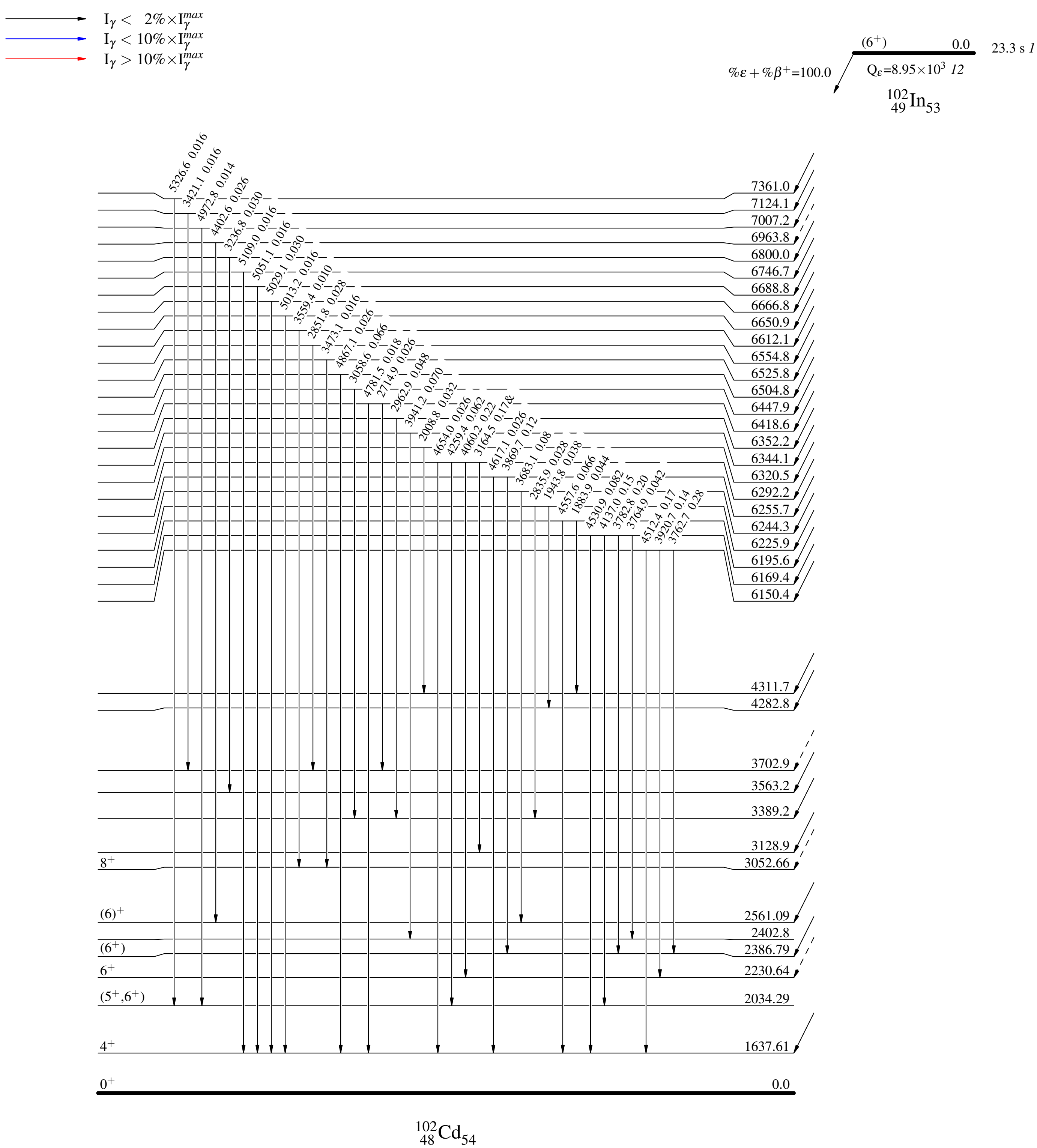
[a] Multiply placed with intensity suitably divided.

^{102}In ε decay 2003Gi06

Decay Scheme

Intensities: Relative I_γ

& Multiply placed: undivided intensity given



^{102}In ε decay 2003Gi06

Decay Scheme (continued)

Intensities: Relative I_γ

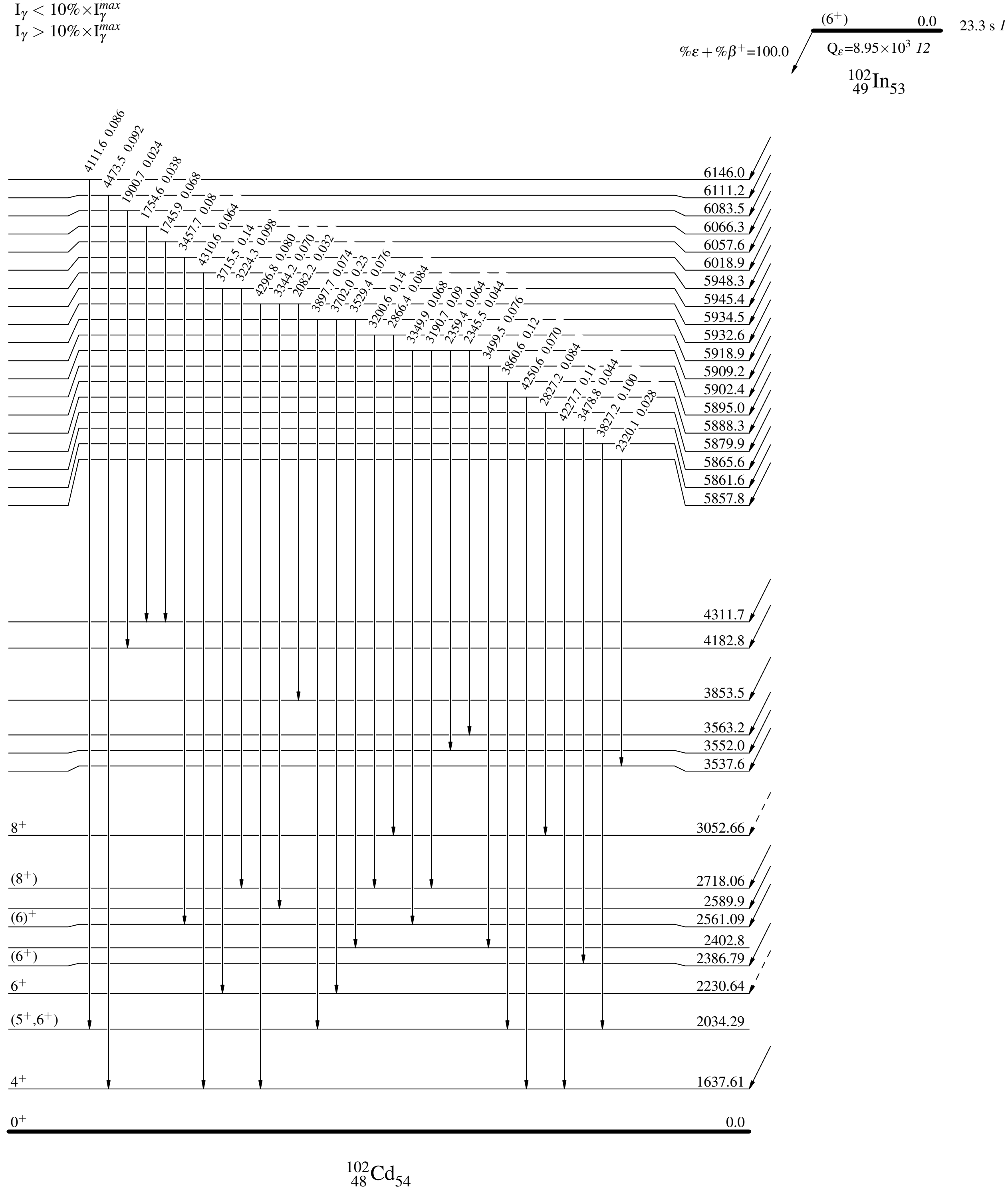
& Multiply placed: undivided intensity given

Legend

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

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

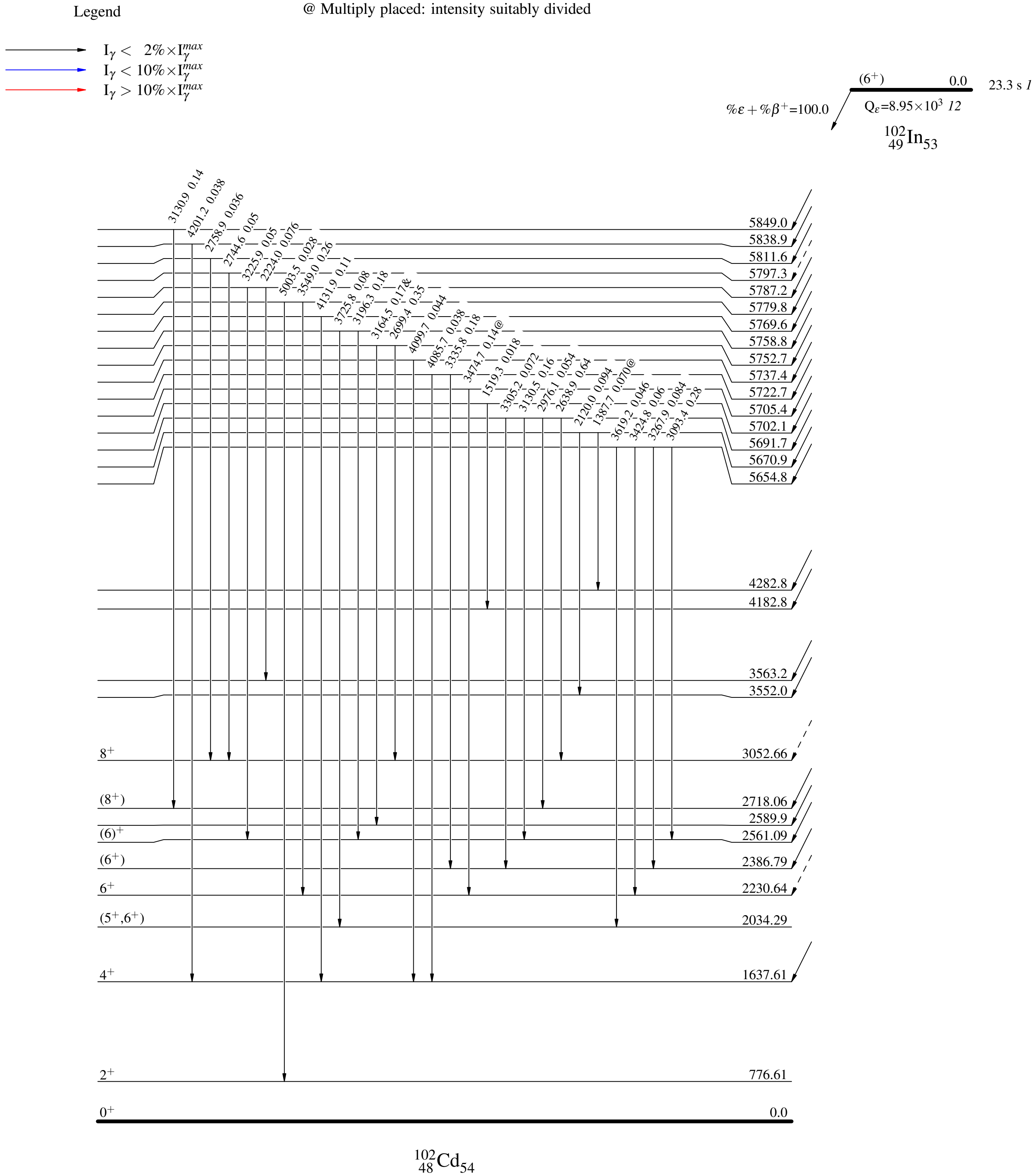
$I_\gamma > 10\% \times I_\gamma^{max}$



^{102}In ε decay 2003Gi06

Decay Scheme (continued)

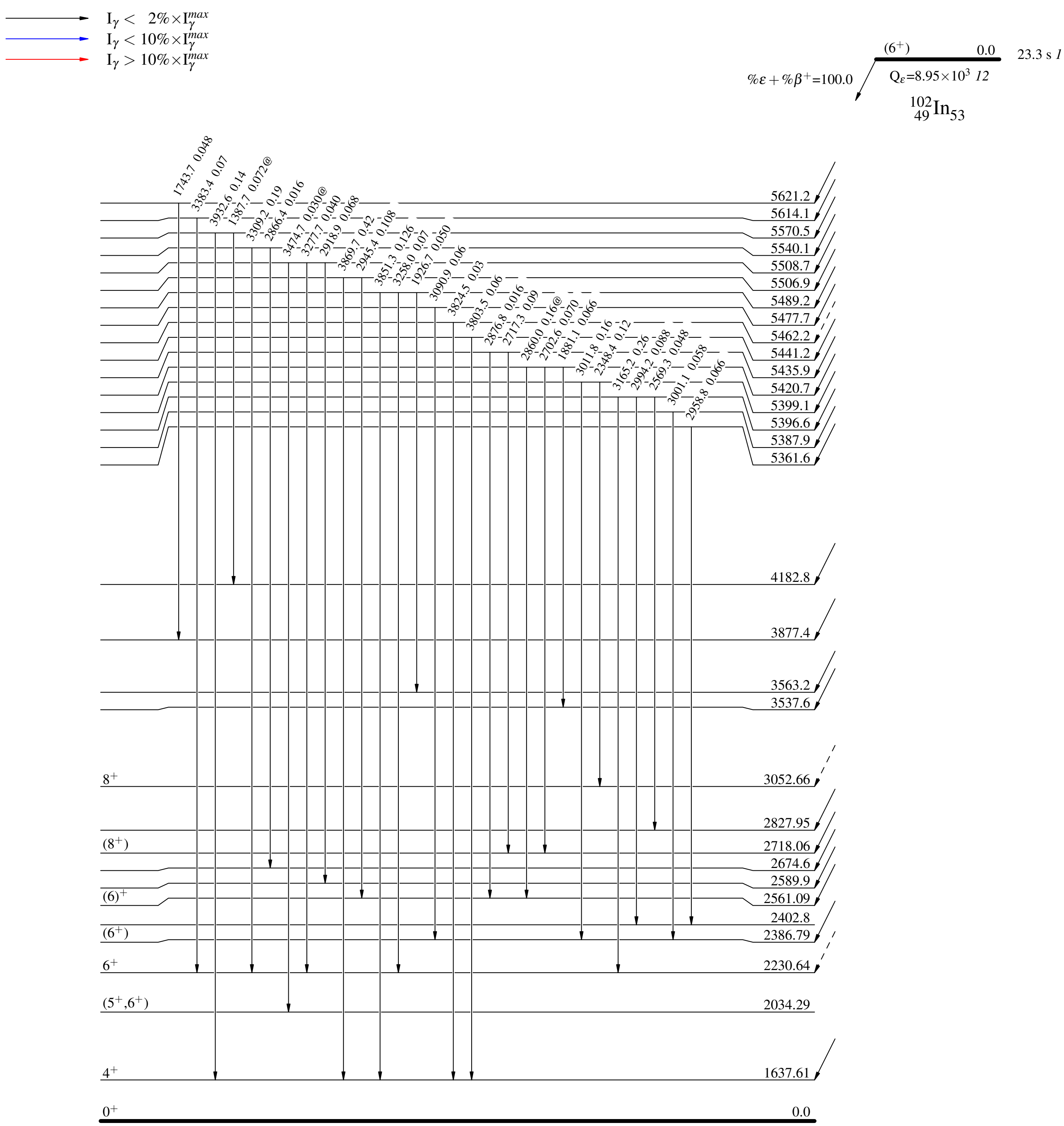
Intensities: Relative I_γ
& Multiply placed: undivided intensity given
@ Multiply placed: intensity suitably divided



^{102}In ε decay 2003Gi06

Decay Scheme (continued)

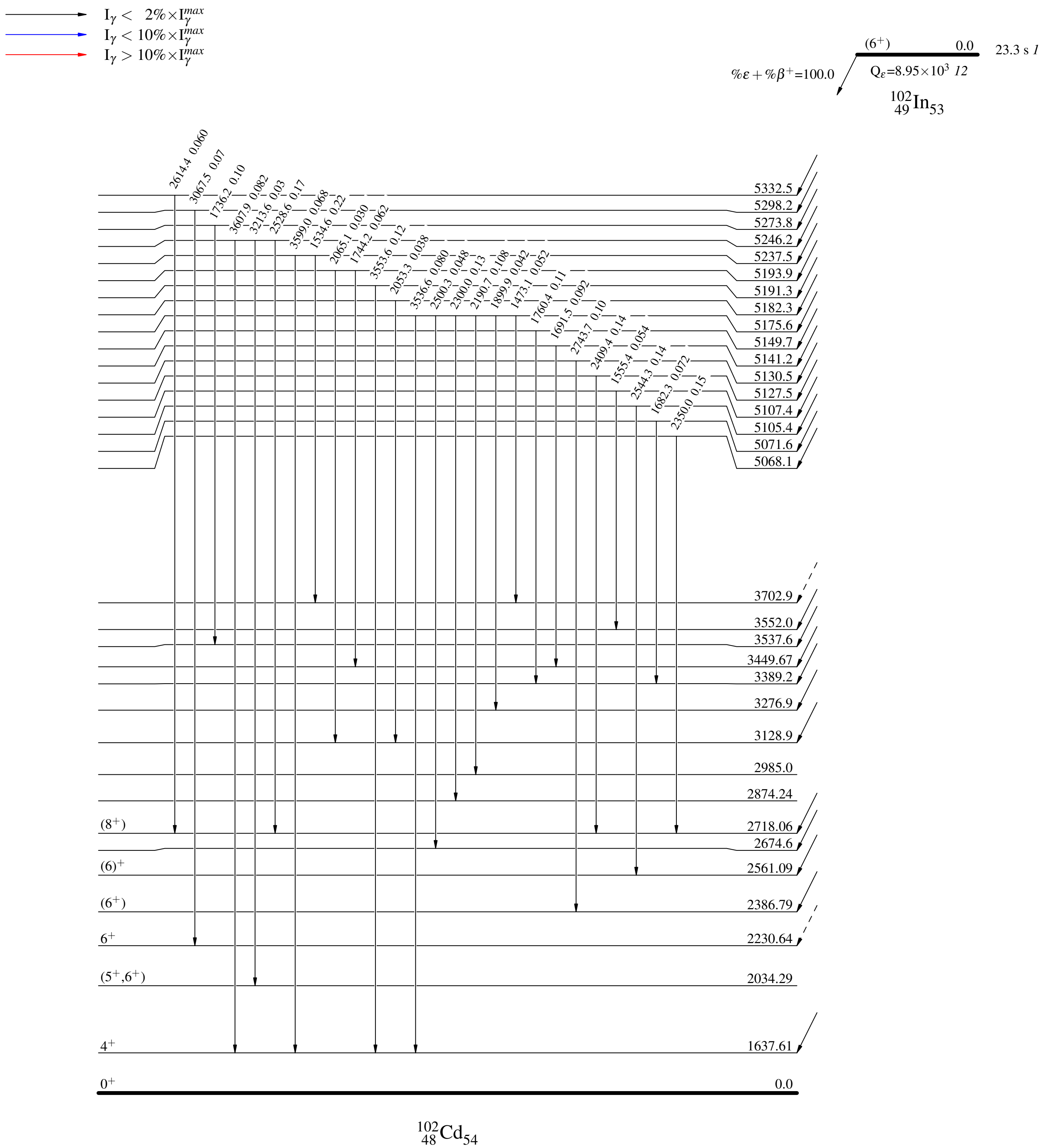
Intensities: Relative I_γ
& Multiply placed: undivided intensity given
@ Multiply placed: intensity suitably divided



^{102}In ε decay 2003Gi06

Decay Scheme (continued)

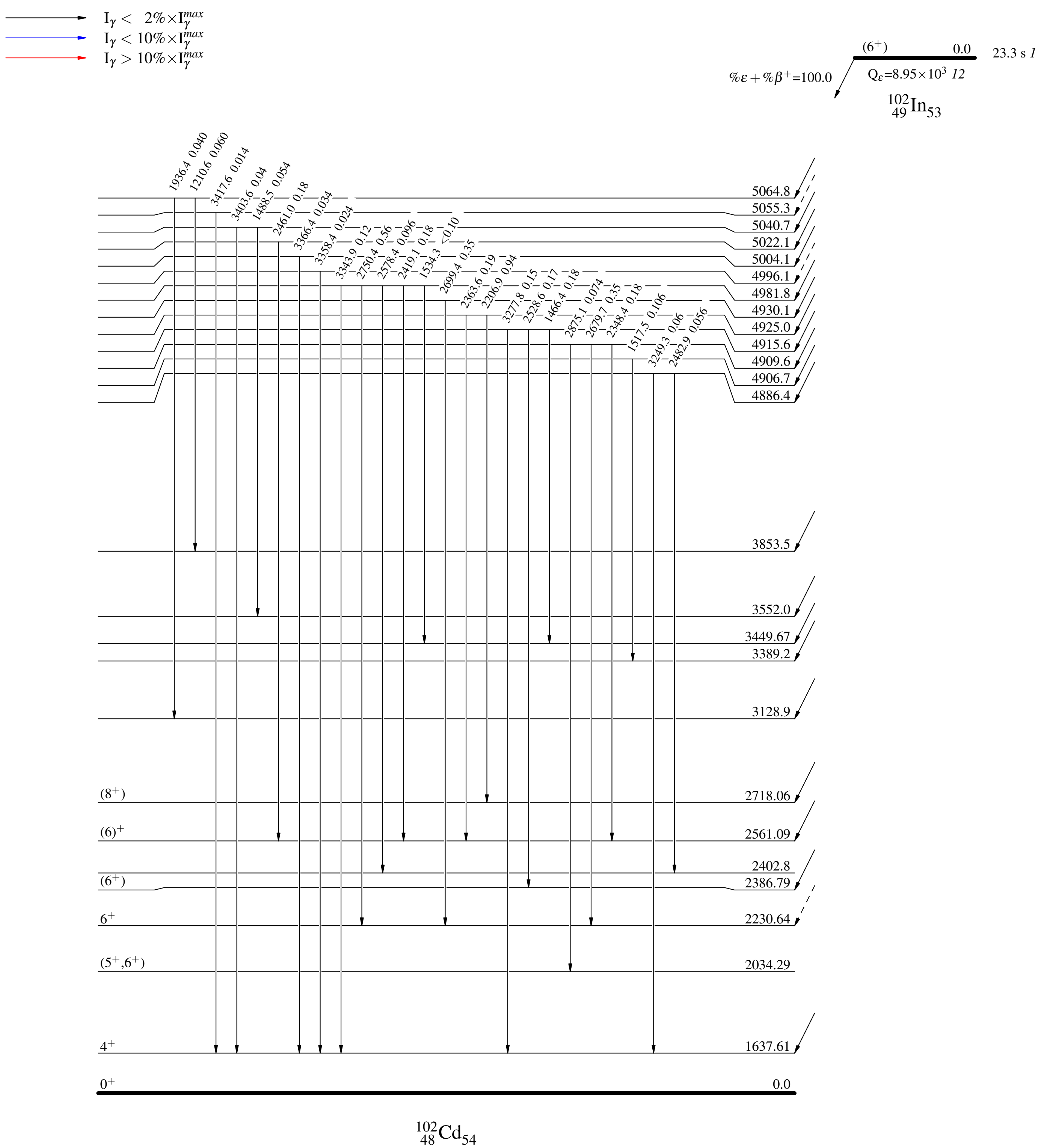
Intensities: Relative I_γ
& Multiply placed: undivided intensity given
@ Multiply placed: intensity suitably divided



^{102}In ε decay 2003Gi06

Decay Scheme (continued)

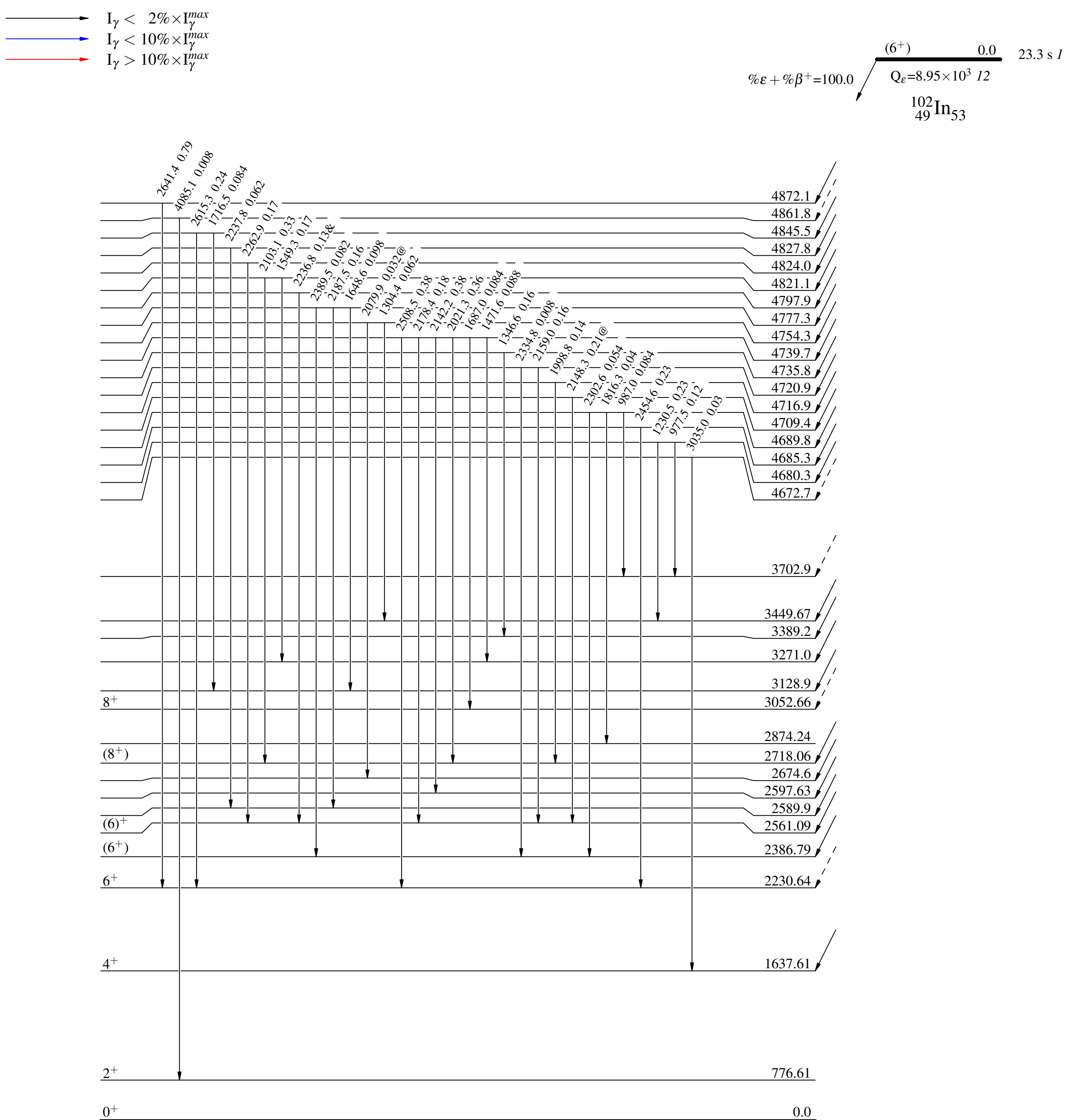
Intensities: Relative I_γ
& Multiply placed: undivided intensity given
@ Multiply placed: intensity suitably divided



^{102}In ε decay 2003Gi06

Decay Scheme (continued)

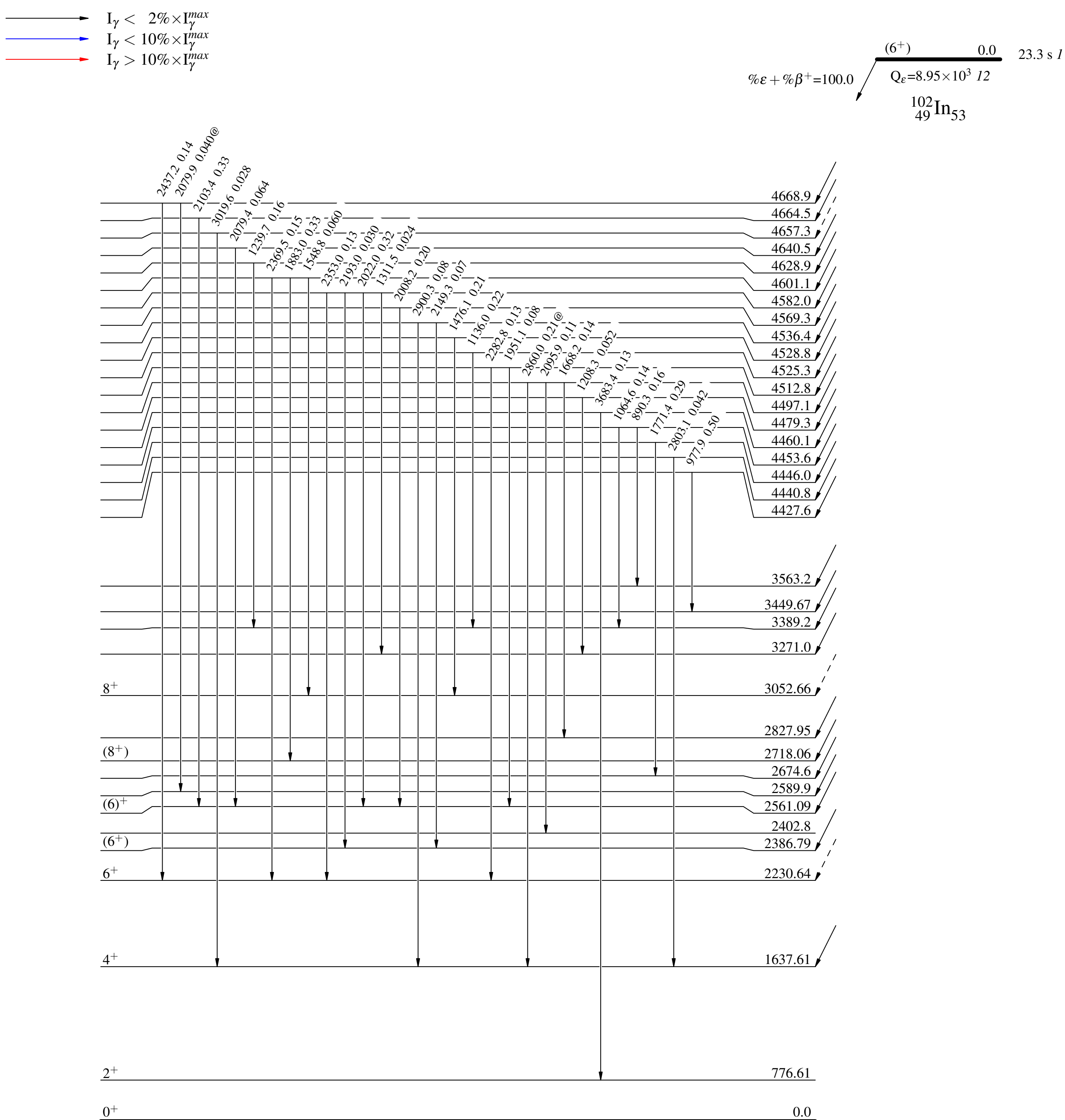
Intensities: Relative I_γ
& Multiply placed: undivided intensity given
@ Multiply placed: intensity suitably divided



^{102}In ε decay 2003Gi06

Decay Scheme (continued)

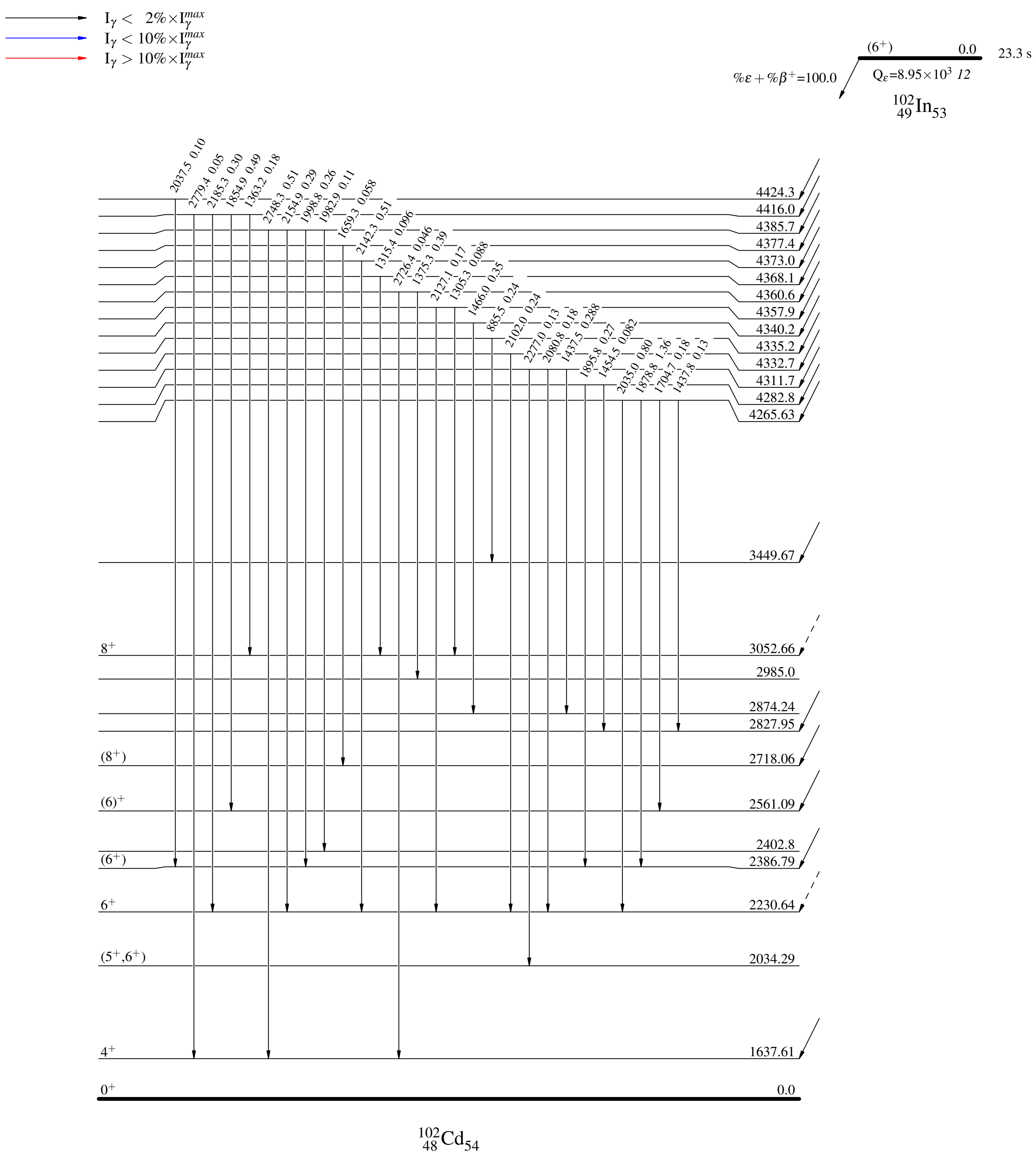
Intensities: Relative I_γ
& Multiply placed: undivided intensity given
@ Multiply placed: intensity suitably divided



^{102}In ε decay 2003Gi06

Decay Scheme (continued)

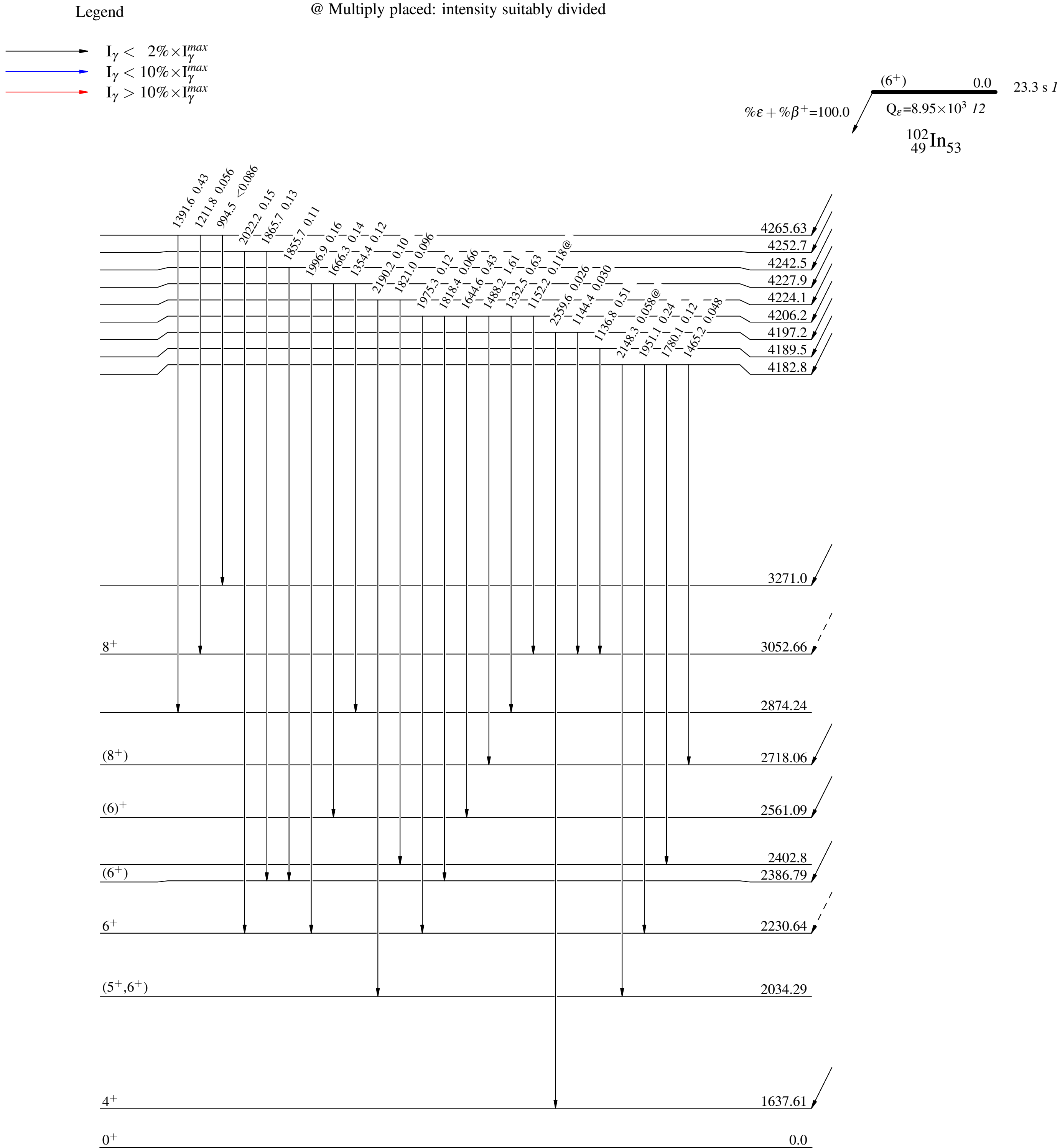
Intensities: Relative I_γ
& Multiply placed: undivided intensity given
@ Multiply placed: intensity suitably divided



^{102}In ε decay 2003Gi06

Decay Scheme (continued)

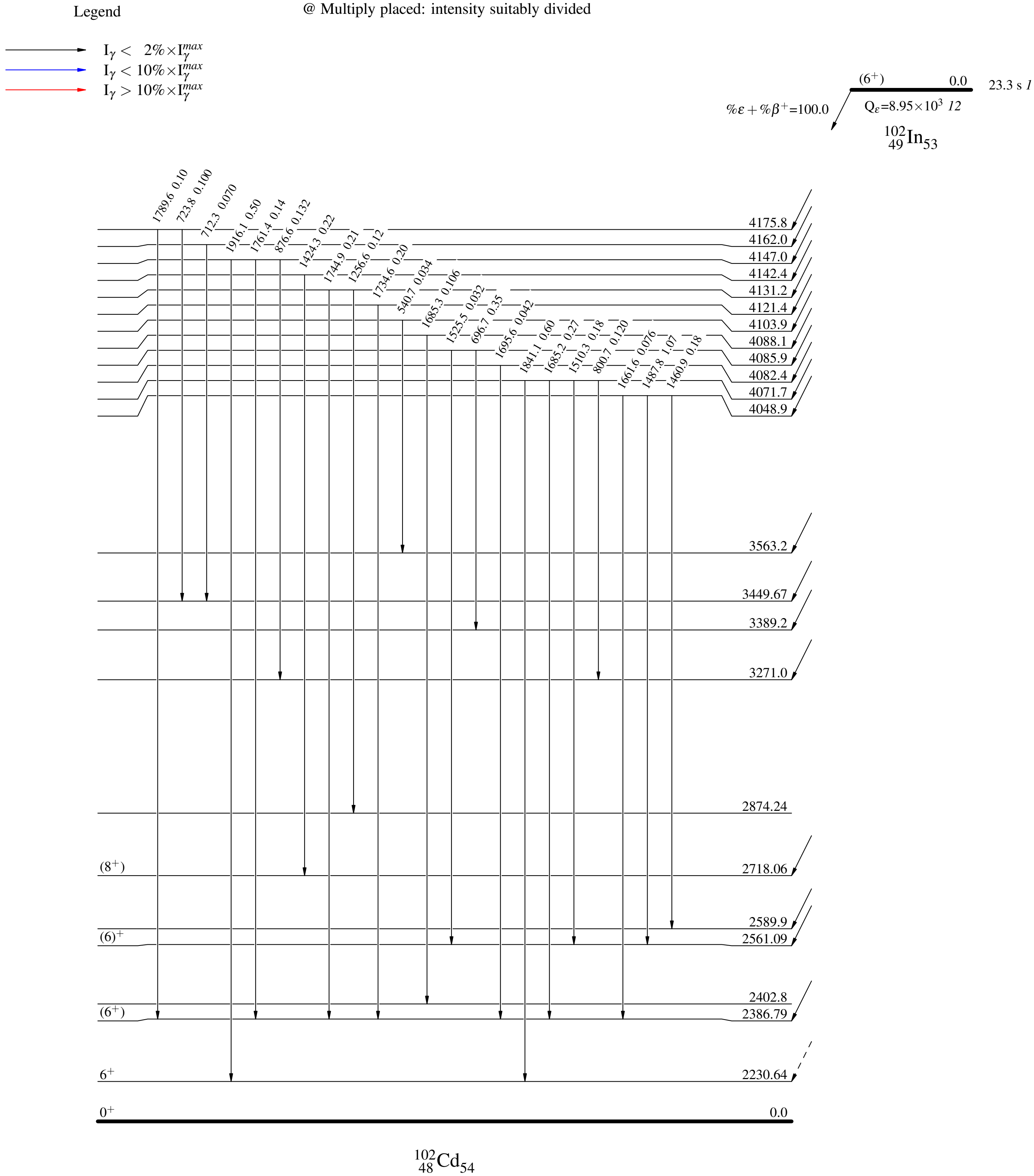
Intensities: Relative I_γ
& Multiply placed: undivided intensity given
@ Multiply placed: intensity suitably divided



^{102}In ε decay 2003Gi06

Decay Scheme (continued)

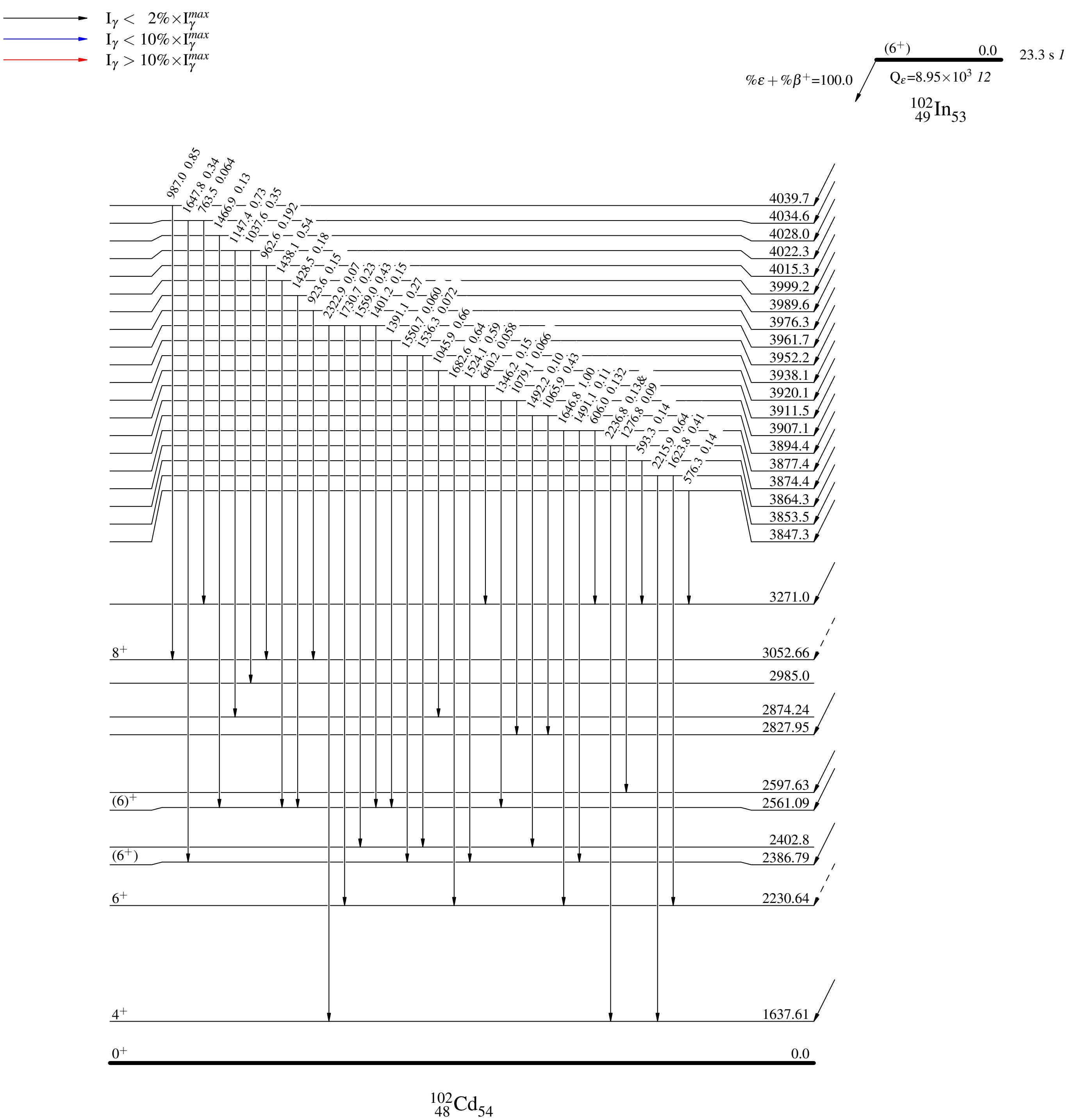
Intensities: Relative I_γ
& Multiply placed: undivided intensity given
@ Multiply placed: intensity suitably divided



^{102}In ε decay 2003Gi06

Decay Scheme (continued)

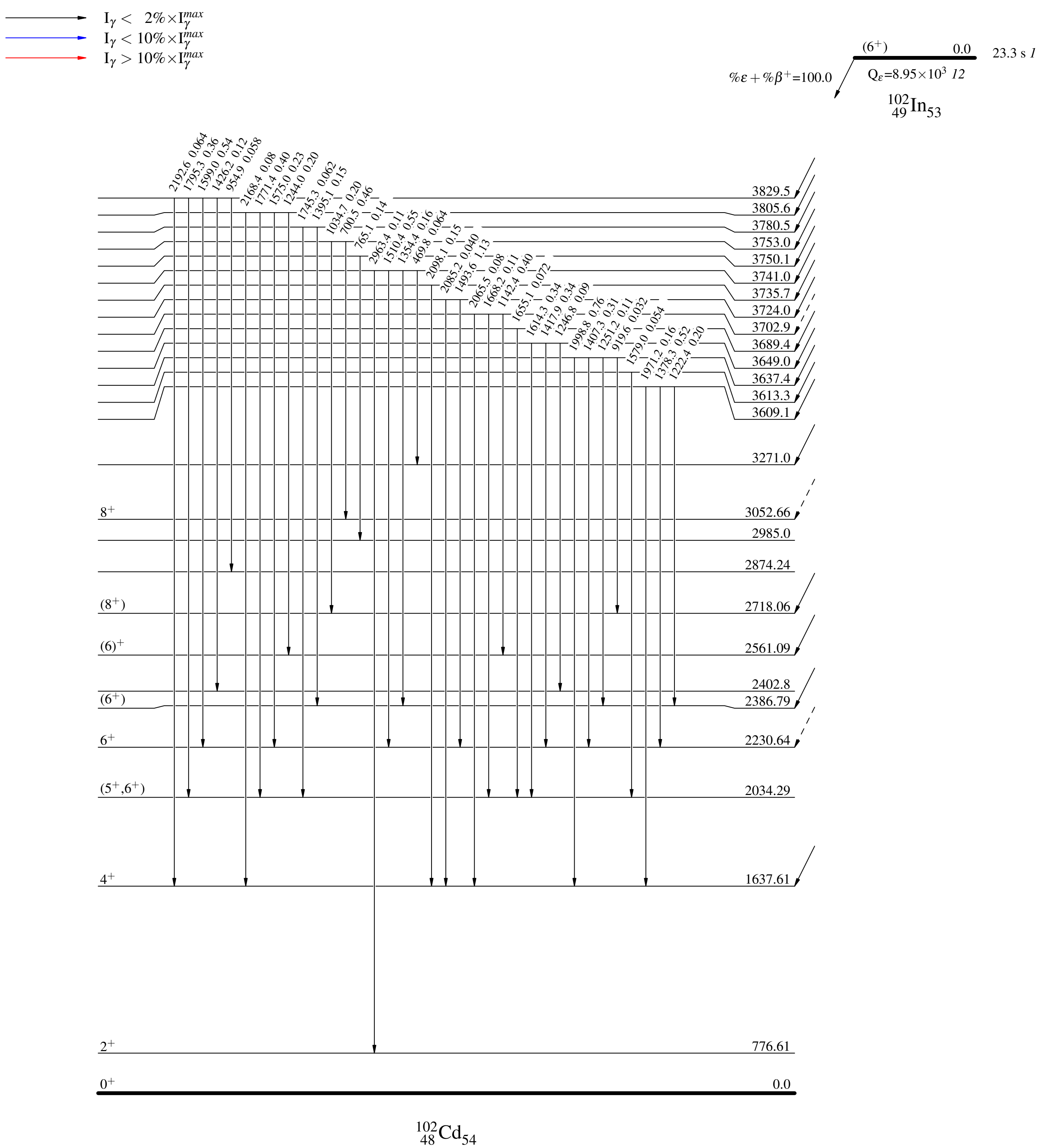
Intensities: Relative I_γ
& Multiply placed: undivided intensity given
@ Multiply placed: intensity suitably divided



^{102}In ε decay 2003Gi06

Decay Scheme (continued)

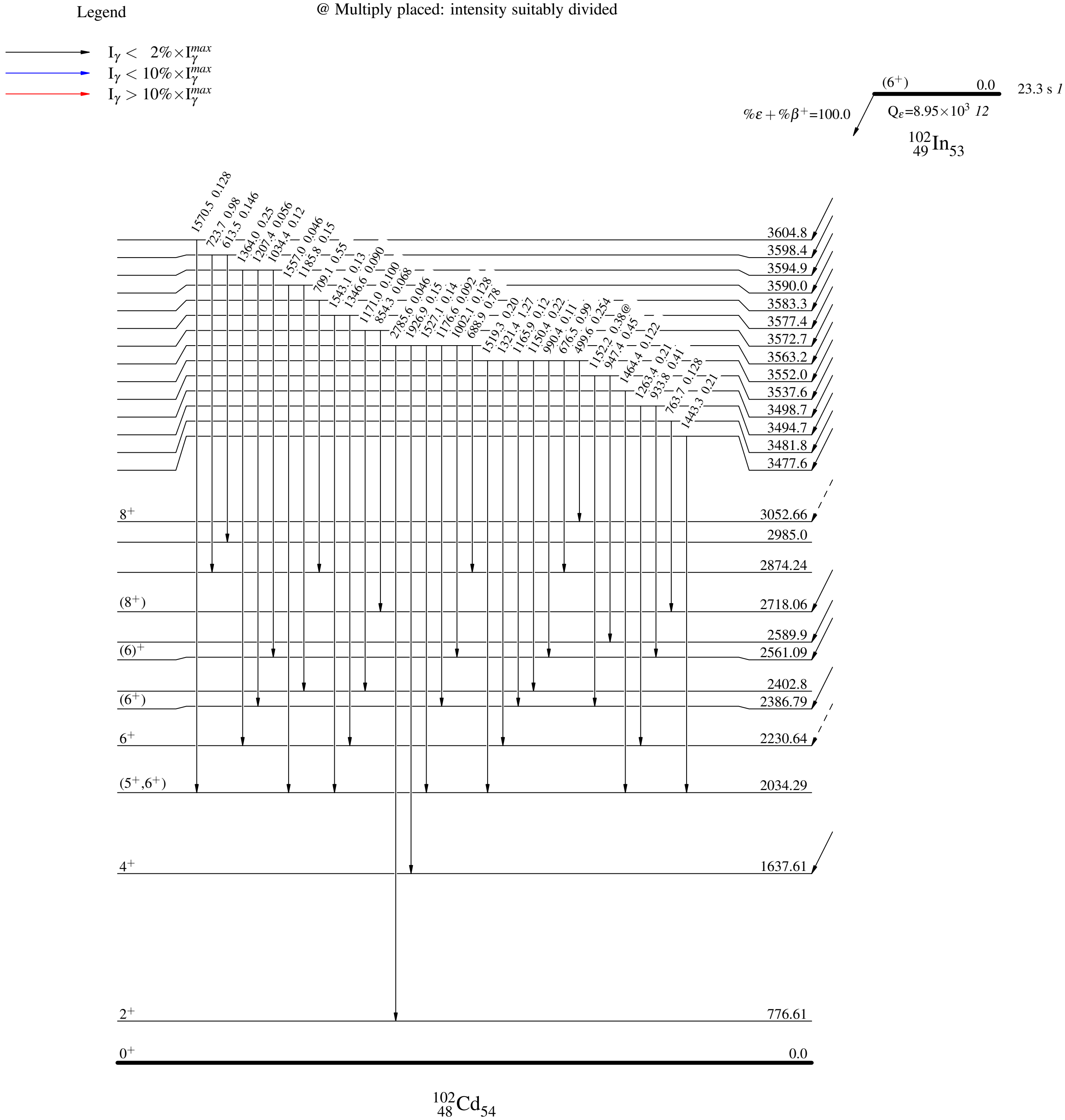
Intensities: Relative I_γ
& Multiply placed: undivided intensity given
@ Multiply placed: intensity suitably divided



^{102}In ε decay 2003Gi06

Decay Scheme (continued)

Intensities: Relative I_γ
& Multiply placed: undivided intensity given
@ Multiply placed: intensity suitably divided

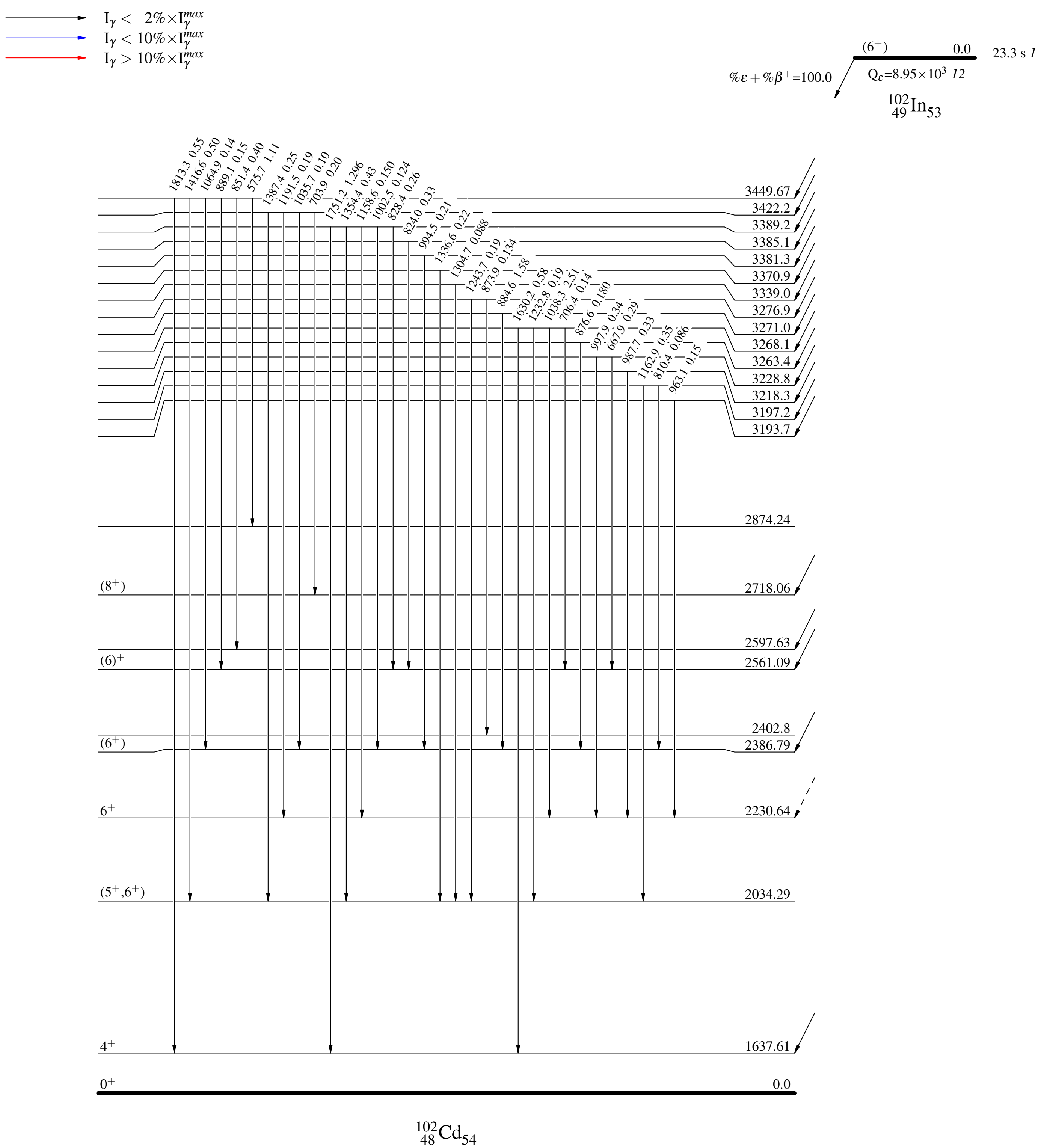


^{102}In ε decay 2003Gi06

Decay Scheme (continued)

Intensities: Relative I_γ
& Multiply placed: undivided intensity given
@ Multiply placed: intensity suitably divided

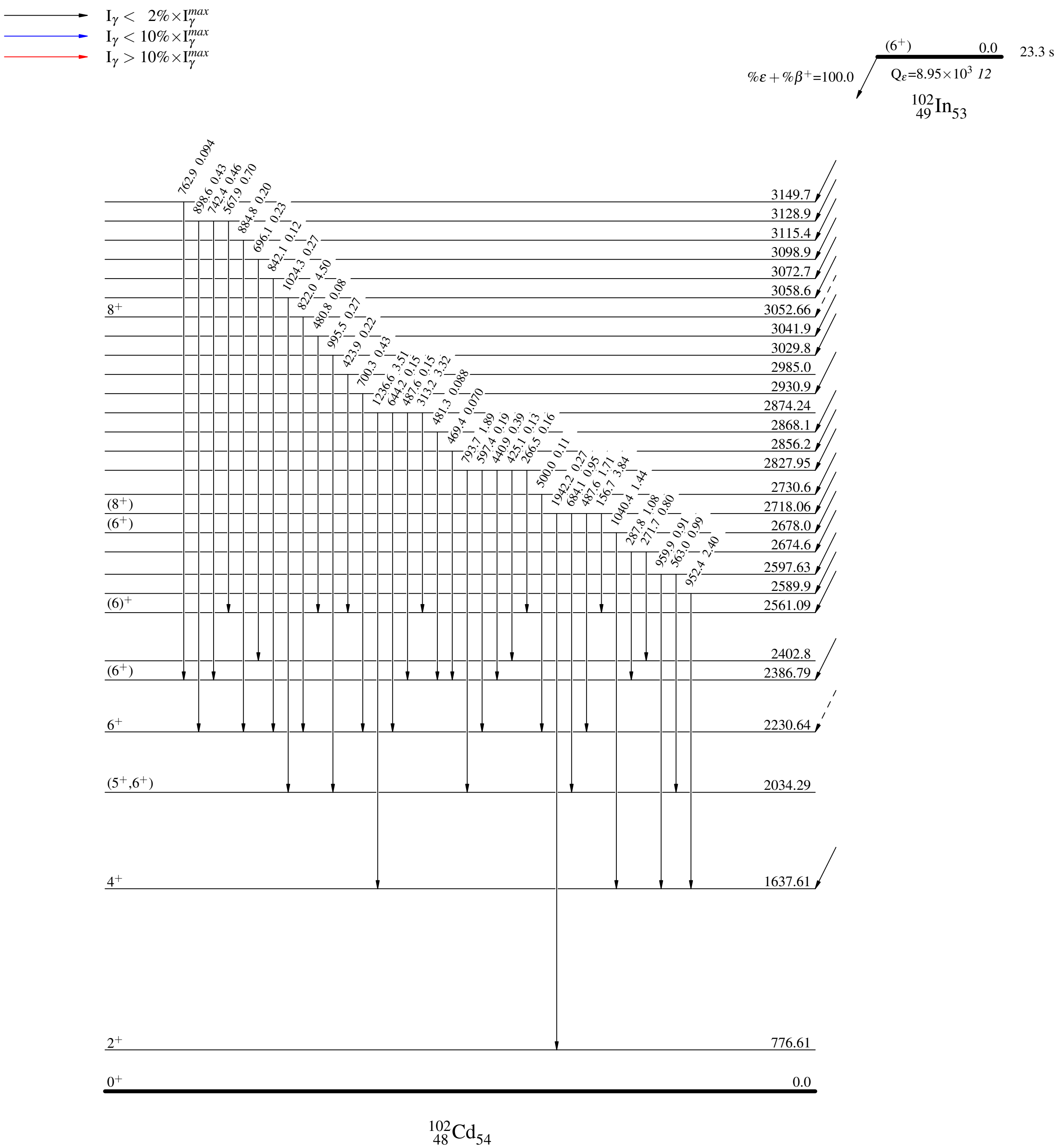
Legend



^{102}In ε decay 2003Gi06

Decay Scheme (continued)

Intensities: Relative I_γ
& Multiply placed: undivided intensity given
@ Multiply placed: intensity suitably divided



^{102}In ε decay 2003Gi06

Decay Scheme (continued)

Intensities: Relative I_γ

& Multiply placed: undivided intensity given

@ Multiply placed: intensity suitably divided