

<sup>100</sup>Y β<sup>-</sup> decay (732 ms) 1986Wo01

Type	Author	Citation	Literature Cutoff Date
Update	Balraj Singh and Jun Chen	ENSDF	12-Dec-2022

Parent: <sup>100</sup>Y: E=0.0; J<sup>π</sup>=(1)<sup>-</sup>; T<sub>1/2</sub>=732 ms 5; Q(β<sup>-</sup>)=9051 14; %β<sup>-</sup> decay=100

<sup>100</sup>Y-J<sup>π</sup>,T<sub>1/2</sub>: From <sup>100</sup>Y Adopted Levels.

<sup>100</sup>Y-Q(β<sup>-</sup>): From 2021Wa16.

1986Wo01: measured γ, γγ, γγ(θ), ce, βγ, half-life of <sup>100</sup>Y decay. See also 1990Wo01 for discussion of level structure. The <sup>100</sup>Y isotope produced by neutron fission of <sup>235</sup>U followed by mass separation of A=100 ion-beam at TRISTAN facility of the Brookhaven National Laboratory. The separated products contained only the <sup>100</sup>Rb and <sup>100</sup>Sr activities. The β<sup>-</sup> decay of <sup>100</sup>Sr (J<sup>π</sup>(g.s.)=0<sup>+</sup>) to <sup>100</sup>Y is expected to populate only the low spin 735-ms isomer (most likely the g.s. of <sup>100</sup>Y). The presence of the 0.94-s isomer is estimated as <1% by 1986Wo01.

1985Mu07, 1983Mu19: measured Eγ, Iγ, γγ-coin, half-life of <sup>100</sup>Y decay using online-separator facility OSTIS at the Institut Laue-Langevin (ILL), Grenoble.

1977Kh03, 1978Kh01: measured Eγ, Iγ, γγ-coin, ce, (ce)γ-coin, β, β(ce)(t), half-life of <sup>100</sup>Y decay using the gas-filled separator JOSEF at Julich.

The decay scheme from γ and γγ data of 1986Wo01 represents a significant improvement over the one suggested by 1985Mu07.

Other measurements:

γγ(θ): 1978Se03.

γγ(θ,H,t): 1980Wo09.

γγ(t): 1989Lh01.

β: 1985IaZZ, 1984Pa19.

βγ: 1984Pa19.

βγ(t): 1990Ma01, 1989Oh06, 1989Wo05, 1989Ma47.

Additional information 1.

T<sub>1/2</sub>(<sup>100</sup>Y isotope): 1986Wa17, 1985IaZZ, 1983Mu19.

<sup>100</sup>Zr Levels

E(level) <sup>†</sup>	J <sup>π</sup> <sup>‡</sup>	T <sub>1/2</sub>	Comments
0.0	0 <sup>+</sup>		
212.530 9	2 <sup>+</sup>	0.55 ns 2	T <sub>1/2</sub> : βγ(t) (weighted average of 0.55 ns 2 (1989Ma47) and 0.54 ns 4 (1989Oh06)). Others: 1989Wo05 cite 0.61 ns 8 from literature, 0.40 ns 8 from γγ(t) (1989Lh01). From γγ(θ,H,t), g factor=0.22 5 (1980Wo09). Sign of g factor is not given by 1980Wo09, but it is likely to be positive.
331.13 5	0 <sup>+</sup>	5.53 ns 15	T <sub>1/2</sub> : weighted average of 5.60 ns 15 (βγγ(t), 1990Ma01) and 5.36 ns 23 (γγ(t), 1989Lh01). Other: 3.37 ns 30 (βce(t), 1978Kh01).
564.486 15	4 <sup>+</sup>	37 ps 4	J <sup>π</sup> : from (119γ)(213γ)(θ) (1978Se03,1986Wo01).
829.20 6	0 <sup>+</sup>		T <sub>1/2</sub> : βγγ(t) (1989Oh06).
878.58 4	2 <sup>+</sup>		J <sup>π</sup> : from (617γ)(213γ)(θ) (1986Wo01).
1196.16 4	(2 <sup>+</sup> )		
1294.85 5	(2 <sup>-</sup> ,3)		
1441.44 7	(1,2 <sup>+</sup> )		The branching ratios of γ rays are in disagreement with those from 2002Lh01 in the decay of <sup>100</sup> Y β <sup>-</sup> decay (0.94 s).
1807.59 5	(1,2 <sup>+</sup> )		
1938.14 5	(1,2 <sup>+</sup> )		
2182.92 9	(1,2 <sup>+</sup> )		
2692.76 9	(1,2 <sup>+</sup> )		
2727.4 2	(1,2 <sup>+</sup> )		
2770.67 8	(1,2 <sup>+</sup> )		
2846.26 7	(1,2 <sup>+</sup> )		
2932.02 13	(1,2 <sup>+</sup> )		
3069.7 2	(1,2 <sup>+</sup> )		
3571.8 3	(1,2 <sup>+</sup> )		

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$^{100}\text{Y}$   $\beta^-$  decay (732 ms) **1986Wo01** (continued) $^{100}\text{Zr}$  Levels (continued)

<u>E(level)<sup>†</sup></u>	<u>J<sup>π</sup><sup>‡</sup></u>	Comments
3956.6 3	(1,2 <sup>+</sup> )	
4288.4 4	(1,2 <sup>+</sup> )	
6827+x		E(level): x<2224 19 from Q( $\beta^-$ ) (for $^{100}\text{Y}$ decay – S(n)( $^{100}\text{Zr}$ ), where Q( $\beta^-$ )=9051 14, and S(n)=6827 13 from <a href="#">2021Wa16</a> .

<sup>†</sup> From least-squares fit to E<sub>γ</sub> values.

<sup>‡</sup> From the Adopted Levels.

 $\beta^-$  radiations

[1984Pa19](#) deduced Q( $\beta^-$ ) value from an average of 10 endpoint energies determined from 24  $\beta\gamma$  coincidence spectra.

<u>E(decay)</u>	<u>E(level)</u>	<u>I<math>\beta^-</math><sup>†‡</sup></u>	<u>Log ft<sup>†</sup></u>	Comments
(1.1×10 <sup>3</sup> @ 11) (4763 14)	6827+x 4288.4	1.02 6 <0.55	>6.2	I $\beta^-$ : % $\beta^-$ -n=1.02 6 for the decay of the $^{100}\text{Y}$ g.s. and the isomer. av E $\beta$ =2106.1 68
(5094 14)	3956.6	<1.3	>5.9	I $\beta$ =0.49 8, log ft=6.3 (1986Wo01). I $\beta$ =0.55 12 (evaluators). av E $\beta$ =2265.6 68
(5479 14)	3571.8	<1.6	>6.0	I $\beta$ =0.92 11, log ft=6.2 (1986Wo01). I $\beta$ =1.3 2 (evaluators). av E $\beta$ =2450.6 68
(5981 14)	3069.7	<1.6	>6.2	I $\beta$ =1.45 15, log ft=6.1 (1986Wo01). I $\beta$ =1.6 3 (evaluators). av E $\beta$ =2692.2 68
(6119 14)	2932.02	<8.4	>5.5	I $\beta$ =1.39 14, log ft=6.3 (1986Wo01). I $\beta$ =1.6 3 (evaluators). av E $\beta$ =2758.5 68
(6205 14)	2846.26	≈14	≈5.3	I $\beta$ =7.5 5, log ft=5.6 (1986Wo01). I $\beta$ =8.4 13 (evaluators). av E $\beta$ =2799.7 68
(6280 14)	2770.67	≈15	≈5.3	I $\beta$ =12.4 7, log ft=5.4 (1986Wo01). I $\beta$ =14 2 (evaluators). av E $\beta$ =2836.1 68
(6324 14)	2727.4	<1.4	>6.3	I $\beta$ =13.7 9, log ft=5.4 (1986Wo01). I $\beta$ =15 2 (evaluators). av E $\beta$ =2856.9 68
(6358 14)	2692.76	<4.9	>5.8	I $\beta$ =1.26 14, log ft=6.5 (1986Wo01). I $\beta$ =1.4 3 (evaluators). av E $\beta$ =2873.6 68
(6868 14)	2182.92	<0.86	>6.7	I $\beta$ =4.4 4, log ft=5.9 (1986Wo01). I $\beta$ =4.9 8 (evaluators). av E $\beta$ =3119.0 68
(7113 14)	1938.14	≈13	≈5.6	I $\beta$ =0.77 9, log ft=6.8 (1986Wo01). I $\beta$ =0.86 15 (evaluators). av E $\beta$ =3236.7 68
(7243 14)	1807.59	<4.1	>6.1	I $\beta$ =10.9 8, log ft=5.7 (1986Wo01). I $\beta$ =13 2 (evaluators). av E $\beta$ =3299.5 68
(7610 14)	1441.44	<1.5	>6.7	I $\beta$ =3.7 4, log ft=6.2 (1986Wo01). I $\beta$ =4.1 7 (evaluators). av E $\beta$ =3475.6 68
(7756 14)	1294.85	<0.8	>7.0	I $\beta$ =1.4 3, log ft=6.8 (1986Wo01). I $\beta$ =1.5 4 (evaluators). av E $\beta$ =3546.1 68
(7855 14)	1196.16	<3.1	>6.4	I $\beta$ =0.7 2, log ft=7.1 (1986Wo01). I $\beta$ =0.8 3 (evaluators). av E $\beta$ =3593.6 68
(8172 14)	878.58	<5.2	>6.3	I $\beta$ =2.8 4, log ft=6.5 (1986Wo01). I $\beta$ =3.1 7 (evaluators). av E $\beta$ =3746.2 68
(8222 14)	829.20	<3.4	>6.5	I $\beta$ =4.7 7, log ft=6.4 (1986Wo01). I $\beta$ =5.2 11 (evaluators). av E $\beta$ =3769.9 68
(8487 <sup>#</sup> 14)	564.486			I $\beta$ =3.0 5, log ft=6.6 (1986Wo01). I $\beta$ =3.4 7 (evaluators). av E $\beta$ =3897.0 68 I $\beta$ =0.35 10, log ft=7.6 (1986Wo01). I $\beta^-$ : apparent feeding of 0.39 13 is probably due to missing $\gamma$ feeding from higher levels, as log ft value of 7.5 is unrealistic for a $\Delta J=(3)$ $\beta$ transition.

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$^{100}\text{Y} \beta^-$  decay (732 ms) **1986Wo01** (continued) $\beta^-$  radiations (continued)

<u>E(decay)</u>	<u>E(level)</u>	<u><math>I\beta^-</math><sup>†‡</sup></u>	<u>Log <math>ft</math><sup>†</sup></u>	<u>Comments</u>
(8720 <i>14</i> )	331.13	$\approx 10$	$\approx 6.1$	av $E\beta=4009.1$ 68 $I\beta=7.7$ 17, log $ft=6.3$ ( <b>1986Wo01</b> ). $I\beta=10$ 5 (evaluators).
(8839 <i>14</i> )	212.530	$\approx 23$	$\approx 5.8$	av $E\beta=4066.0$ 68 $I\beta=20$ 5, log $ft=5.9$ ( <b>1986Wo01</b> ). $I\beta=23$ 6 (evaluators).
(9051 <sup>#</sup> <i>14</i> )	0.0	<2	>6.9	av $E\beta=4168.0$ 68

<sup>†</sup> All values are considered as approximate since a large gap of about 5 MeV between  $Q(\beta^-)$  value and the highest known populated level at 4288 allows the possibility of additional levels and undetected gamma rays. Quoted values of  $I\beta^-$  are from  $I(\gamma+ce)$  intensity balance at each level. All the  $I\beta$  and log  $ft$  are listed as limits, with only five cases with  $I\beta \geq 10\%$  listed as approximate. Values of  $I\beta$  and log  $ft$  as given in Table II of **1986Wo01** are listed under comments, as are apparent  $I\beta$  feedings deduced by the evaluators from  $\gamma$ -intensity intensity balances.

<sup>‡</sup> Absolute intensity per 100 decays.

<sup>#</sup> Existence of this branch is questionable.

<sup>@</sup> Estimated for a range of levels.

<sup>100</sup>Y β<sup>-</sup> decay (732 ms) 1986Wo01 (continued)

γ(<sup>100</sup>Zr)

I<sub>γ</sub> normalization: From I<sub>γ</sub>(absolute) of 212.5γ measured with respect to I<sub>γ</sub>(absolute) of 31% 4 (1981DeYV) for 504γ from <sup>100</sup>Zr β<sup>-</sup>. The absolute I<sub>γ</sub> value of 30% 4 in 2007Ri01 corroborates the measurement by 1981DeYV, while 19% 2 in 1989WaZV seems discrepant. An independent normalization, assuming no β<sup>-</sup> feeding to the g.s. gives I<sub>γ</sub> normalization=0.64 2. The normalization factor derived from the equilibrium spectrum suggests that β<sup>-</sup> feeding to the g.s. is <3%. The delayed neutron decay is 1.02% 6.

The following γ rays tentatively assigned to <sup>100</sup>Y decay by 1985Mu07 have not been seen by 1986Wo01: 326, 966, 1077, 1262, 1542, 1563, 1929, 2010, 2092, 2509 and 2838. All have a reported intensity of 0.5 (1985Mu07). These γ rays have been omitted by the evaluators.

<u>E<sub>γ</sub><sup>†</sup></u>	<u>I<sub>γ</sub><sup>†c</sup></u>	<u>E<sub>i</sub>(level)</u>	<u>J<sub>i</sub><sup>π</sup></u>	<u>E<sub>f</sub></u>	<u>J<sub>f</sub><sup>π</sup></u>	<u>Mult.<sup>a</sup></u>	<u>δ</u>	<u>α<sup>d</sup></u>	<u>I<sub>(γ+ce)</sub><sup>c</sup></u>	<u>Comments</u>
118.59 7	21.1 12	331.13	0 <sup>+</sup>	212.530	2 <sup>+</sup>	E2		0.597		A <sub>2</sub> =+0.25 12, A <sub>4</sub> =+1.09 16 for (119γ)(213γ)(θ) (1978Se03) is typical of a 0-2-0 cascade.
212.531@ 9	100 6	212.530	2 <sup>+</sup>	0.0	0 <sup>+</sup>	E2		0.0723		E <sub>γ</sub> : other: 212.62 7 (1986Wo01).
244.80 8	0.75 6	2182.92	(1,2 <sup>+</sup> )	1938.14	(1,2 <sup>+</sup> )					
314.3 3	0.09 3	878.58	2 <sup>+</sup>	564.486	4 <sup>+</sup>					
317.8 2	0.20 4	1196.16	(2 <sup>+</sup> )	878.58	2 <sup>+</sup>					
331.1		331.13	0 <sup>+</sup>	0.0	0 <sup>+</sup>	E0			16 4	E <sub>γ</sub> : from level energy. Transition seen in βce data. I <sub>(γ+ce)</sub> : from Branching(118γ)=0.68 6 (1986Wo01), deduced from weighted average of values from singles mode (βce data) and in γγ coincidence mode with 2439γ and 2480γ (1986Wo01).
351.960@ 12	1.73 11	564.486	4 <sup>+</sup>	212.530	2 <sup>+</sup>					E <sub>γ</sub> : other: 352.08 8 (1986Wo01).
416.01 11	0.34 4	1294.85	(2 <sup>-</sup> ,3)	878.58	2 <sup>+</sup>					
496.88 13	1.19 17	1938.14	(1,2 <sup>+</sup> )	1441.44	(1,2 <sup>+</sup> )					
512.60 7	0.24 7	1807.59	(1,2 <sup>+</sup> )	1294.85	(2 <sup>-</sup> ,3)					
547.37 7	2.8 4	878.58	2 <sup>+</sup>	331.13	0 <sup>+</sup>					
611.60 11	0.68 7	1807.59	(1,2 <sup>+</sup> )	1196.16	(2 <sup>+</sup> )					
616.67& 7	9.4 6	829.20	0 <sup>+</sup>	212.530	2 <sup>+</sup>					
631.84 8	1.1 1	1196.16	(2 <sup>+</sup> )	564.486	4 <sup>+</sup>					
643.43 12	0.58 8	1938.14	(1,2 <sup>+</sup> )	1294.85	(2 <sup>-</sup> ,3)					
665.98 7	10.6 6	878.58	2 <sup>+</sup>	212.530	2 <sup>+</sup>	(M1+E2)	+1.0 3			δ: from (666γ)(213γ)(θ) (1986Wo01). Sign(δ) reassigned by the evaluators from the angular distribution pattern shown by the authors for the 666-213 cascade. Mult.: large δ(Q/D) favors M1+E2 over E1+M2.
741.99 7	6.0 4	1938.14	(1,2 <sup>+</sup> )	1196.16	(2 <sup>+</sup> )					
754.54 23	0.39 9	2692.76	(1,2 <sup>+</sup> )	1938.14	(1,2 <sup>+</sup> )					
832.64 10	0.90 7	2770.67	(1,2 <sup>+</sup> )	1938.14	(1,2 <sup>+</sup> )					
865.05 8	3.2 2	1196.16	(2 <sup>+</sup> )	331.13	0 <sup>+</sup>					
878.54 8	5.5 4	878.58	2 <sup>+</sup>	0.0	0 <sup>+</sup>					
885.18 11	0.99 9	2692.76	(1,2 <sup>+</sup> )	1807.59	(1,2 <sup>+</sup> )					

$^{100}\text{Y}$   $\beta^-$  decay (732 ms) **1986Wo01** (continued)

$\gamma(^{100}\text{Zr})$  (continued)

$E_\gamma$ <sup>†</sup>	$I_\gamma$ <sup>†c</sup>	$E_i(\text{level})$	$J_i^\pi$	$E_f$	$J_f^\pi$	$E_\gamma$ <sup>†</sup>	$I_\gamma$ <sup>†c</sup>	$E_i(\text{level})$	$J_i^\pi$	$E_f$	$J_f^\pi$
908.09 12	0.62 7	2846.26	(1,2 <sup>+</sup> )	1938.14	(1,2 <sup>+</sup> )	2017.0 3	1.04 10	2846.26	(1,2 <sup>+</sup> )	829.20	0 <sup>+</sup>
919.3 4	0.19 5	2727.4	(1,2 <sup>+</sup> )	1807.59	(1,2 <sup>+</sup> )	2182.3 5	0.43 11	2182.92	(1,2 <sup>+</sup> )	0.0	0 <sup>+</sup>
978.37 12	0.95 9	1807.59	(1,2 <sup>+</sup> )	829.20	0 <sup>+</sup>	2240.5 2	1.80 16	3069.7	(1,2 <sup>+</sup> )	829.20	0 <sup>+</sup>
983.59 8	1.7 2	1196.16	(2 <sup>+</sup> )	212.530	2 <sup>+</sup>	2375.3 10	0.21 11	3571.8	(1,2 <sup>+</sup> )	1196.16	(2 <sup>+</sup> )
1038.68 12	0.83 15	2846.26	(1,2 <sup>+</sup> )	1807.59	(1,2 <sup>+</sup> )	2396.2 3	1.26 14	2727.4	(1,2 <sup>+</sup> )	331.13	0 <sup>+</sup>
1059.51 7	8.7 6	1938.14	(1,2 <sup>+</sup> )	878.58	2 <sup>+</sup>	2439.39 18	9.1 7	2770.67	(1,2 <sup>+</sup> )	331.13	0 <sup>+</sup>
1082.33 8	3.4 3	1294.85	(2 <sup>-</sup> ,3)	212.530	2 <sup>+</sup>	<sup>x</sup> 2469.6 <sup>#</sup> 3	1.45 14				
1109.1 3	1.0 3	1938.14	(1,2 <sup>+</sup> )	829.20	0 <sup>+</sup>	2480.17 17	4.7 4	2692.76	(1,2 <sup>+</sup> )	212.530	2 <sup>+</sup>
1110.5 3	1.0 3	1441.44	(1,2 <sup>+</sup> )	331.13	0 <sup>+</sup>	2515.13 14	8.4 5	2846.26	(1,2 <sup>+</sup> )	331.13	0 <sup>+</sup>
1185.8 <sup>be</sup> 3	0.36 7	3956.6	(1,2 <sup>+</sup> )	2770.67	(1,2 <sup>+</sup> )	2557.8 4	0.56 9	2770.67	(1,2 <sup>+</sup> )	212.530	2 <sup>+</sup>
1196.08 7	5.0 3	1196.16	(2 <sup>+</sup> )	0.0	0 <sup>+</sup>	2600.95 18	6.1 4	2932.02	(1,2 <sup>+</sup> )	331.13	0 <sup>+</sup>
1228.99 8	2.1 2	1441.44	(1,2 <sup>+</sup> )	212.530	2 <sup>+</sup>	2633.7 3	1.10 14	2846.26	(1,2 <sup>+</sup> )	212.530	2 <sup>+</sup>
1329.6 4	0.27 7	2770.67	(1,2 <sup>+</sup> )	1441.44	(1,2 <sup>+</sup> )	2692.6 4	0.32 9	2692.76	(1,2 <sup>+</sup> )	0.0	0 <sup>+</sup>
1441.2 3	0.45 9	1441.44	(1,2 <sup>+</sup> )	0.0	0 <sup>+</sup>	2719.2 3	1.09 13	2932.02	(1,2 <sup>+</sup> )	212.530	2 <sup>+</sup>
1476.53 14	1.74 18	1807.59	(1,2 <sup>+</sup> )	331.13	0 <sup>+</sup>	2728.0 5	0.48 12	2727.4	(1,2 <sup>+</sup> )	0.0	0 <sup>+</sup>
1551.4 2	1.12 13	2846.26	(1,2 <sup>+</sup> )	1294.85	(2 <sup>-</sup> ,3)	2738.6 5	0.33 10	3069.7	(1,2 <sup>+</sup> )	331.13	0 <sup>+</sup>
1595.16 17	2.4 3	1807.59	(1,2 <sup>+</sup> )	212.530	2 <sup>+</sup>	2770.4 3	7.8 6	2770.67	(1,2 <sup>+</sup> )	0.0	0 <sup>+</sup>
1608.0 <sup>‡e</sup>	1.5	1938.14	(1,2 <sup>+</sup> )	331.13	0 <sup>+</sup>	2846.2 2	5.8 4	2846.26	(1,2 <sup>+</sup> )	0.0	0 <sup>+</sup>
1637.0 3	0.64 10	2932.02	(1,2 <sup>+</sup> )	1294.85	(2 <sup>-</sup> ,3)	2932.1 3	3.7 3	2932.02	(1,2 <sup>+</sup> )	0.0	0 <sup>+</sup>
<sup>x</sup> 1670.8 <sup>#</sup> 3	0.83 11					<sup>x</sup> 2980.8 5	0.42 10				
1725.44 16	0.93 15	1938.14	(1,2 <sup>+</sup> )	212.530	2 <sup>+</sup>	3359.2 4	1.14 14	3571.8	(1,2 <sup>+</sup> )	212.530	2 <sup>+</sup>
<sup>x</sup> 1750 <sup>‡</sup>	1.0					3571.8 4	0.87 11	3571.8	(1,2 <sup>+</sup> )	0.0	0 <sup>+</sup>
1807.9 2	1.6 3	1807.59	(1,2 <sup>+</sup> )	0.0	0 <sup>+</sup>	3743.9 5	0.66 11	3956.6	(1,2 <sup>+</sup> )	212.530	2 <sup>+</sup>
1814.9 6	0.29 9	2692.76	(1,2 <sup>+</sup> )	878.58	2 <sup>+</sup>	3956.8 5	0.74 10	3956.6	(1,2 <sup>+</sup> )	0.0	0 <sup>+</sup>
1891.8 2	2.3 3	2770.67	(1,2 <sup>+</sup> )	878.58	2 <sup>+</sup>	4075.8 4	0.52 9	4288.4	(1,2 <sup>+</sup> )	212.530	2 <sup>+</sup>
1937.9 3	0.97 12	1938.14	(1,2 <sup>+</sup> )	0.0	0 <sup>+</sup>	4288.1 6	0.23 7	4288.4	(1,2 <sup>+</sup> )	0.0	0 <sup>+</sup>

<sup>†</sup> From 1986Wo01, unless otherwise noted.

<sup>‡</sup>  $\gamma$  reported by 1985Mu07 only. Treated as uncertain by the evaluators.

<sup>#</sup>  $\gamma$  in coincidence with 212.5 $\gamma$ , but no unique assignment possible.

@ From curved-crystal spectrometer data (1979Bo26).

& (61 $\gamma$ )(213 $\gamma$ )( $\theta$ ) (1986Wo01).

<sup>a</sup> From ce data in 1986Wo01, unless otherwise noted.

<sup>b</sup> Tentative placement (evaluators) from level energy difference.

<sup>c</sup> For absolute intensity per 100 decays, multiply by 0.73 10.

<sup>d</sup> Total theoretical internal conversion coefficients, calculated using the BrIcc code (2008Ki07) with Frozen orbital approximation based on  $\gamma$ -ray energies, assigned multipolarities, and mixing ratios, unless otherwise specified.

<sup>e</sup> Placement of transition in the level scheme is uncertain.

<sup>x</sup>  $\gamma$  ray not placed in level scheme.

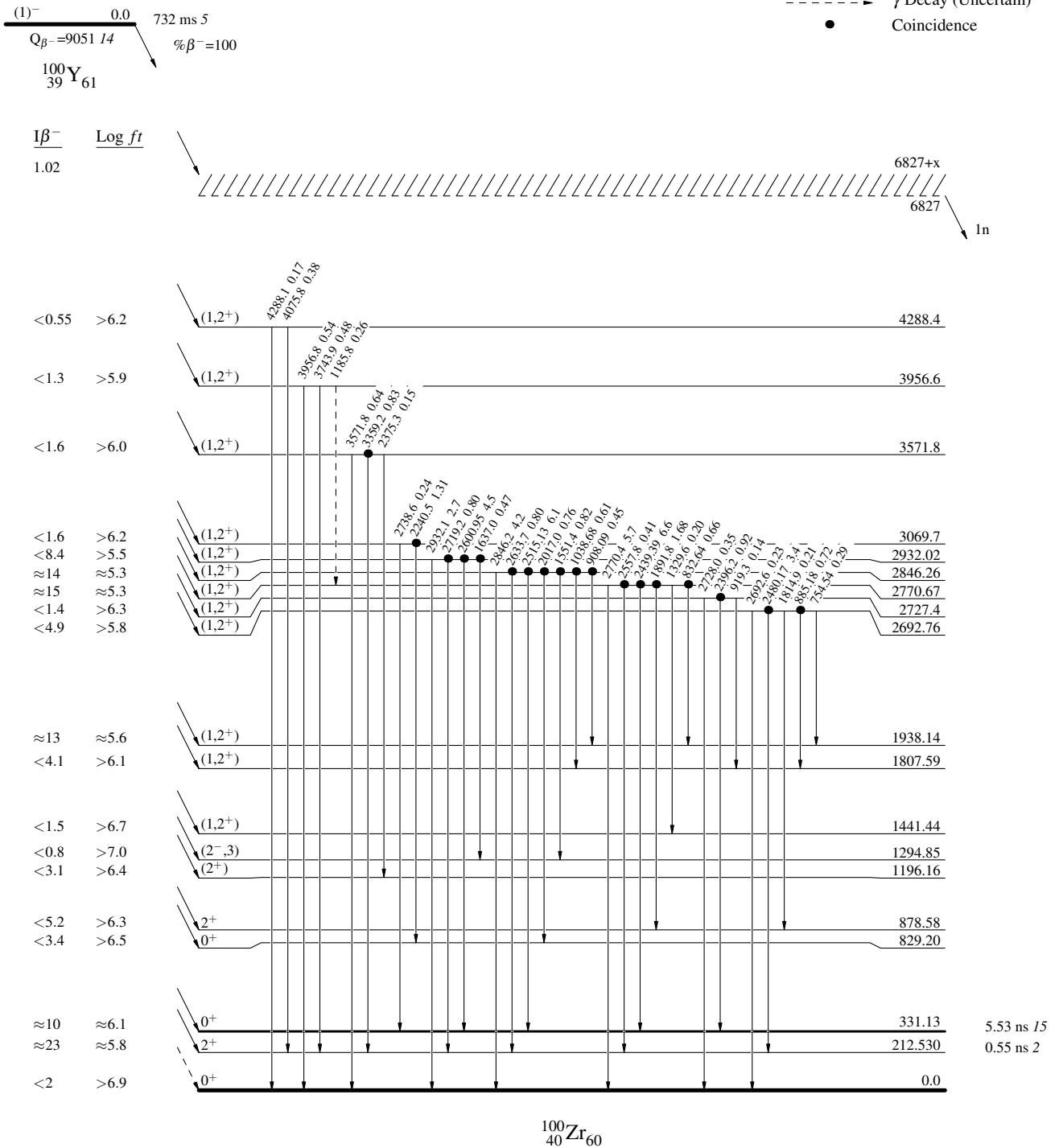
$^{100}\text{Y} \beta^-$  decay (732 ms) 1986Wo01

Decay Scheme

Legend

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

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



$^{100}\text{Y} \beta^-$  decay (732 ms) 1986Wo01

## Decay Scheme (continued)

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

## Legend

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

