

^{97}Rb β^- decay 1990Lh02

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

Parent: ^{97}Rb : $E=0.0$; $J^\pi=3/2^+$; $T_{1/2}=169.1$ ms 6; $Q(\beta^-)=10432$ 28; $\% \beta^-$ decay=100.0

^{97}Rb -ADOPTED values for ^{97}Rb .

1990Lh02: measured E_γ , I_γ , $\gamma\gamma(t)$.

1983Kr11: measured E_γ , I_γ , Ice, $\gamma\gamma$, $\beta\gamma(t)$.

1990Bu01: measured $\beta\gamma\gamma(t)$.

1992Pr03: measured β^- endpoint with achromatic magnetic sector field filter with GE(HP) β^- detector.

Other: 1975Gu03.

1990Mo15, 1984Ha58, 1984Kr03, 1984Kr06, 1984Kr07: β -decay strength function calculations.

The level scheme is that proposed by 1983Kr11 and modified by 1990Lh02.

 ^{97}Sr Levels

E(level) [†]	J^π [‡]	$T_{1/2}$ [#]	Comments
0.0	$1/2^+$	429 ms 5	$\% \beta^- = 100$; $\% \beta^- n \leq 0.05$ $T_{1/2}, \% \beta^-, \% \beta^- n$: from Adopted Levels.
167.13 8	$3/2^+$	0.22 ns 4	$T_{1/2}$: from 1987Oh05. Other: 15 ns (1983Kr11).
308.13 11	$7/2^+$	170 ns 10	$T_{1/2}$: from 1983Kr11.
522.49 9	$3/2^+, 5/2^+$		
585.06 & 9	$(3/2^+)$	≤ 8 ps	
600.48 9	$3/2^+, 5/2^+$	≤ 11 ps	Possibly a 2^+ phonon excitation (1990Bu01).
644.73 ^a 9	$(3/2^-)$	7.2 ns 10	$T_{1/2}$: from 1983Kr11.
687.09 @ 9	$5/2^+$	0.364 ns 20	
713.82 ^b 9	$(5/2^-)$	1.27 ns 19	$T_{1/2}$: other: 1.7 ns (1983Kr11).
755.37 15			
768.7 3			
771.50 ^a 13	$7/2^-$		
822.42 & 15	$(7/2^+)$	0.21 ns 3	
916.44 15			
985.49 13	$(3/2^+, 5/2^+)$	≤ 6 ps	
1095.50 14	$(3/2^+, 5/2^-)$		
1320.70 14		≤ 7 ps	
1374.67 16		≤ 6 ps	
1507.3 3	$(1/2^+, 3/2, 5/2^+)$		
2854.9 4			

[†] From least squares fit to E_γ .

[‡] From ^{97}Sr Adopted Levels.

[#] From 1990Bu01, except where otherwise noted.

@ Band(A): Band based on $5/2^+$, $\alpha=+1/2$.

& Band(a): Band based on $3/2^+$, $\alpha=-1/2$.

^a Band(B): Band based on $3/2^-$, $\alpha=-1/2$.

^b Band(b): Band based on $5/2^-$, $\alpha=+1/2$.

^{97}Rb β^- decay 1990Lh02 (continued) β^- radiations

E(decay)	E(level)	$I\beta^-$ ^{†@}	Log <i>ft</i>	Comments
(7.58×10 ³ 3)	2854.9	0.84 17	6.25 9	av E β =3469 14
(8.92×10 ³ 3)	1507.3	1.53 25	6.32 8	av E β =4118 14
(9.06×10 ³ 3)	1374.67	3.5 5	5.99 7	av E β =4182 14
(9.11×10 ³ 3)	1320.70	4.3 3	5.91 3	av E β =4208 14
(9.34×10 ³ 3)	1095.50	2.7 3	6.16 5	av E β =4316 14
(9.45×10 ³ 3)	985.49	6.5 6	5.80 4	av E β =4369 14
(9.52×10 ³ 3)	916.44	0.97 22	6.64 10	av E β =4402 14
(9.61×10 ³ & 3)	822.42	0.40 [‡] 8	7.05 [‡] 9	av E β =4447 14
(9.66×10 ³ & 3)	771.50	0.69 [‡] 11	6.82 [‡] 7	av E β =4472 14
(9.66×10 ³ 3)	768.7	0.16 [#] 6	7.46 [#] 17	av E β =4473 14
(9.68×10 ³ 3)	755.37	0.47 10	6.99 10	av E β =4480 14
(9.72×10 ³ 3)	713.82	3.1 4	6.18 6	av E β =4500 14
(9.74×10 ³ 3)	687.09	12.8 11	5.57 4	av E β =4512 14
(9.79×10 ³ 3)	644.73	7.0 6	5.84 4	av E β =4533 14
(9.83×10 ³ 3)	600.48	7.2 7	5.84 5	av E β =4554 14
(9.85×10 ³ 3)	585.06	14.7 12	5.53 4	av E β =4561 14
(9.91×10 ³ 3)	522.49	1.7 4	6.48 11	av E β =4591 14
(1.012×10 ⁴ & 3)	308.13	1.0 [‡] 4	6.75 [‡] 18	av E β =4694 14
(1.026×10 ⁴ 3)	167.13	2.0 8	6.48 18	av E β =4762 14
(1.043×10 ⁴ 3)	0.0	3 3	6.3 5	av E β =4842 14

E(decay): 10462 47 (1992Pr03); 10450 30 (1984BIZN).

[†] Calculated from intensity balance on the proposed level scheme. The intensity of the ground-state β group was deduced by 1983Kr11 from a filiation measurement assuming the absolute intensity of $I(743\gamma \text{ } ^{97}\text{Nb})=0.928$ and $\% \beta^- n=25.2$. (correcting for the adopted $I\gamma$ (0.9306 15) and $\% \beta^- n$ (25.5 9) does not alter the deduced $I\beta$ (g.s.).).

[‡] The log *ft* value is in disagreement with the spin assignment. The log *ft* value suggests $J=1/2, 3/2, 5/2$. However, since the β group is weak, the available decay energy is high (suggesting possible unknown higher levels), and there is enough intensity in unplaced gammas which might feed this level, the β^- group can be considered questionable.

[#] $I\beta=1.21$ 18, log *ft*=6.58 7 if placement of 768.7 γ to this level is confirmed.

[@] Absolute intensity per 100 decays.

[&] Existence of this branch is questionable.

γ(⁹⁷Sr)

I_γ normalization: based on intensity balance at ⁹⁷Sr g.s. with %β⁻n=25.5 9 (Adopted Levels for ⁹⁷Sr) and I(g.s. β⁻)=3 3% (from [1983Kr11](#)). Total unplaced I_γ=5.4% (strongest unplaced γ has I_γ=0.60 11%).

E _γ [†]	I _γ ^{†@}	E _i (level)	J _i ^π	E _f	J _f ^π	Mult. [‡]	δ	α ^{&}	Comments
^x 40.7 1 42.4 1	3 1 2 1	687.09	5/2 ⁺	644.73	(3/2) ⁻	[E1]		1.231 20	α(K)=1.081 17; α(L)=0.1262 20; α(M)=0.0209 4; α(N+..)=0.00263 4 α(N)=0.00250 4; α(O)=0.0001325 21 α(K)=0.955 15; α(L)=0.1109 18; α(M)=0.0184 3; α(N+..)=0.00232 4 α(N)=0.00220 4; α(O)=0.0001177 18 Mult.: from α(exp)=0.98 50, α(K)exp=0.61 33 (1990Lh02).
44.3 1	28 3	644.73	(3/2) ⁻	600.48	3/2 ⁺ , 5/2 ⁺	(E1)		1.086 17	α(K)=1.00 24; α(L)=0.16 7; α(M)=0.027 11; α(N+..)=0.0033 12 α(N)=0.0032 12; α(O)=0.00014 3 α(K)=0.405 6; α(L)=0.0460 7; α(M)=0.00764 12; α(N+..)=0.000976 15 α(N)=0.000924 14; α(O)=5.18×10 ⁻⁵ 8 Mult.: from α(exp)=0.43 18, α(K)exp=0.24 17 (1990Lh02); α(K)exp=0.50 15 (1983Kr11).
57.7 1	10 1	771.50	7/2 ⁻	713.82	(5/2) ⁻	M1+E2 [#]	0.26 [#] +9-12	1.2 3	α(K)=2.5 20; α(L)=0.5 5; α(M)=0.09 8; α(N+..)=0.010 9 α(N)=0.010 9; α(O)=0.00031 23 α(K)=0.50 7; α(L)=0.067 15; α(M)=0.0114 25; α(N+..)=0.0014 3 α(N)=0.0014 3; α(O)=7.3×10 ⁻⁵ 8 Mult., δ: from α(K)exp=0.50 6 (weighted average of α(K)exp=0.53 15 and 0.53 12 (1990Lh02) and α(K)exp=0.48 8 (1983Kr11)).
59.7 1	96 6	644.73	(3/2) ⁻	585.06	(3/2) ⁺	(E1)		0.460	α(K)=1.2 9; α(L)=0.21 18; α(M)=0.04 3; α(N+..)=0.004 4 α(N)=0.004 4; α(O)=0.00015 11 α(K)=0.8 6; α(L)=0.14 12; α(M)=0.023 19; α(N+..)=0.0028 23 α(N)=0.0027 22; α(O)=0.00011 8 α(K)=0.24 5; α(L)=0.033 9; α(M)=0.0056 15; α(N+..)=0.00070 17 α(N)=0.00066 17; α(O)=3.3×10 ⁻⁵ 7 Mult., δ: from α(K)exp=0.24 5 (1983Kr11).
62.5 2	1 1	585.06	(3/2) ⁺	522.49	3/2 ⁺ , 5/2 ⁺	[M1,E2]		3 3	α(K)=0.0622 9; α(L)=0.00686 10; α(M)=0.001143 17; α(N+..)=0.0001492 22 α(N)=0.0001407 20; α(O)=8.46×10 ⁻⁶ 12 α(K)=0.0498 8; α(L)=0.00548 9; α(M)=0.000914 14;
69.1 1	67 3	713.82	(5/2) ⁻	644.73	(3/2) ⁻	M1+E2	0.19 +6-7	0.58 9	
78.0 2	1 1	600.48	3/2 ⁺ , 5/2 ⁺	522.49	3/2 ⁺ , 5/2 ⁺	[M1,E2]		1.4 11	
86.6 1	15 2	687.09	5/2 ⁺	600.48	3/2 ⁺ , 5/2 ⁺	[M1,E2]		1.0 8	
102.0 1	98 4	687.09	5/2 ⁺	585.06	(3/2) ⁺	M1+E2	0.43 12	0.28 6	
113.3 1	15 2	713.82	(5/2) ⁻	600.48	3/2 ⁺ , 5/2 ⁺	[E1]		0.0703	
122.2 2	14 5	644.73	(3/2) ⁻	522.49	3/2 ⁺ , 5/2 ⁺	[E1]		0.0563	

⁹⁷Rb β⁻ decay 1990Lh02 (continued)γ(⁹⁷Sr) (continued)

<u>E_γ[†]</u>	<u>I_γ^{†@}</u>	<u>E_i(level)</u>	<u>J_i^π</u>	<u>E_f</u>	<u>J_f^π</u>	<u>Mult.[‡]</u>	<u>α^{&}</u>	<u>Comments</u>
126.7 2	3 1	771.50	7/2 ⁻	644.73	(3/2) ⁻	E2 [#]	0.427	α(N+..)=0.0001195 18 α(N)=0.0001127 17; α(O)=6.81×10 ⁻⁶ 10 α(K)=0.364 6; α(L)=0.0531 9; α(M)=0.00893 14; α(N+..)=0.001096 17
128.8 1	28 4	713.82	(5/2) ⁻	585.06	(3/2) ⁺	(E1)	0.0482	α(N)=0.001048 16; α(O)=4.77×10 ⁻⁵ 8 α(K)=0.0426 6; α(L)=0.00469 7; α(M)=0.000782 11; α(N+..)=0.0001024 15
135.4 2	6 1	822.42	(7/2) ⁺	687.09	5/2 ⁺	[M1+E2]	0.20 14	α(N)=9.65×10 ⁻⁵ 14; α(O)=5.86×10 ⁻⁶ 9 Mult.: from α(K)exp=0.04 2 (1983Kr11). α(K)=0.17 12; α(L)=0.024 17; α(M)=0.004 3; α(N+..)=0.0005 4
141.0 1	100 8	308.13	7/2 ⁺	167.13	3/2 ⁺	E2	0.288	α(N)=0.0005 4; α(O)=2.4×10 ⁻⁵ 15 α(K)=0.247 4; α(L)=0.0347 5; α(M)=0.00584 9; α(N+..)=0.000722 11
164.6 1	45 5	687.09	5/2 ⁺	522.49	3/2 ⁺ , 5/2 ⁺	M1	0.0421	α(N)=0.000690 10; α(O)=3.28×10 ⁻⁵ 5 Mult.: from α(K)exp=0.24 4 (1983Kr11). α(K)=0.0371 6; α(L)=0.00418 6; α(M)=0.000704 10; α(N+..)=9.38×10 ⁻⁵ 14
167.1 1	1000	167.13	3/2 ⁺	0.0	1/2 ⁺	M1	0.0404	α(N)=8.81×10 ⁻⁵ 13; α(O)=5.65×10 ⁻⁶ 8 Mult.: from α(K)exp=0.036 7 (1983Kr11). %I _γ =26.3 12 α(K)=0.0356 5; α(L)=0.00402 6; α(M)=0.000676 10; α(N+..)=9.01×10 ⁻⁵ 13
214.3 2	4 1	522.49	3/2 ⁺ , 5/2 ⁺	308.13	7/2 ⁺			α(N)=8.46×10 ⁻⁵ 12; α(O)=5.43×10 ⁻⁶ 8 %I _γ : using the calculated normalization. Mult.: from α(K)exp=0.035 2 (1983Kr11).
229.6 7	3 2	916.44		687.09	5/2 ⁺			
232.8 2	4 1	755.37		522.49	3/2 ⁺ , 5/2 ⁺			
237.3 2	10 2	822.42	(7/2) ⁺	585.06	(3/2) ⁺			
271.7 7	2 1	985.49	(3/2 ⁺ , 5/2 ⁺)	713.82	(5/2) ⁻			
273.1 2	2 1	1095.50	(3/2 ⁺ , 5/2)	822.42	(7/2) ⁺			
298.4 2	10 2	985.49	(3/2 ⁺ , 5/2 ⁺)	687.09	5/2 ⁺			
315.5 3	3 1	916.44		600.48	3/2 ⁺ , 5/2 ⁺			
331.3 3	4 1	916.44		585.06	(3/2) ⁺			
355.3 2	105 8	522.49	3/2 ⁺ , 5/2 ⁺	167.13	3/2 ⁺	M1	0.00593	α(K)=0.00524 8; α(L)=0.000578 9; α(M)=9.72×10 ⁻⁵ 14; α(N+..)=1.299×10 ⁻⁵ 19
379.0 2	57 4	687.09	5/2 ⁺	308.13	7/2 ⁺	(M1)	0.00507	α(N)=1.220×10 ⁻⁵ 18; α(O)=7.93×10 ⁻⁷ 12 Mult.: from α(K)exp=0.0058 10 (1983Kr11). α(K)=0.00448 7; α(L)=0.000493 7; α(M)=8.29×10 ⁻⁵ 12; α(N+..)=1.109×10 ⁻⁵ 16
382.4 10	3 2	1095.50	(3/2 ⁺ , 5/2)	713.82	(5/2) ⁻			α(N)=1.041×10 ⁻⁵ 15; α(O)=6.78×10 ⁻⁷ 10 Mult.: from α(K)exp=0.0035 15 (1983Kr11).
^x 383.2 3	6 2							

⁹⁷Sr-4
³⁸159

From ENSDF

⁹⁷Sr-4
³⁸159

$\gamma(^{97}\text{Sr})$ (continued)

E_γ †	I_γ †@	E_i (level)	J_i^π	E_f	J_f^π	Mult. ‡	α &	Comments
385.3 3	17 3	985.49	$(3/2^+, 5/2^+)$	600.48	$3/2^+, 5/2^+$			
389.3 3	8 2	1374.67		985.49	$(3/2^+, 5/2^+)$			
394.1 3	15 2	916.44		522.49	$3/2^+, 5/2^+$			
400.4 2	60 4	985.49	$(3/2^+, 5/2^+)$	585.06	$(3/2^+)$	(M1)	0.00444	$\alpha(\text{K})=0.00393$ 6; $\alpha(\text{L})=0.000432$ 6; $\alpha(\text{M})=7.25 \times 10^{-5}$ 11; $\alpha(\text{N}+..)=9.70 \times 10^{-6}$ 14 $\alpha(\text{N})=9.11 \times 10^{-6}$ 13; $\alpha(\text{O})=5.93 \times 10^{-7}$ 9 Mult.: from $\alpha(\text{K})_{\text{exp}}=0.0045$ 20.
405.8 2	9 2	713.82	$(5/2)^-$	308.13	$7/2^+$			
408.4 3	18 5	1095.50	$(3/2^+, 5/2)$	687.09	$5/2^+$			
417.9 2	226 14	585.06	$(3/2^+)$	167.13	$3/2^+$	M1,E2	0.0052 12	$\alpha(\text{K})=0.0046$ 11; $\alpha(\text{L})=0.00052$ 13; $\alpha(\text{M})=8.7 \times 10^{-5}$ 22; $\alpha(\text{N}+..)=1.2 \times 10^{-5}$ 3 $\alpha(\text{N})=1.1 \times 10^{-5}$ 3; $\alpha(\text{O})=6.7 \times 10^{-7}$ 14 Mult.: from $\alpha(\text{K})_{\text{exp}}=0.0045$ 10 (1983Kr11); theory: $\alpha(\text{K})(\text{M1})=0.00355$ $\alpha(\text{K})(\text{E2})=0.00564$.
433.4 2	98 6	600.48	$3/2^+, 5/2^+$	167.13	$3/2^+$	M1,E2	0.0047 11	$\alpha(\text{K})=0.0041$ 9; $\alpha(\text{L})=0.00047$ 11; $\alpha(\text{M})=7.8 \times 10^{-5}$ 19; $\alpha(\text{N}+..)=1.04 \times 10^{-5}$ 24 $\alpha(\text{N})=9.8 \times 10^{-6}$ 23; $\alpha(\text{O})=6.1 \times 10^{-7}$ 12 Mult.: from $\alpha(\text{K})_{\text{exp}}=0.0048$ 15 (1983Kr11); theory: $\alpha(\text{K})(\text{M1})=0.00325$, $\alpha(\text{K})(\text{E2})=0.00503$.
477.5 2	36 5	644.73	$(3/2)^-$	167.13	$3/2^+$			
495.1 2	40 3	1095.50	$(3/2^+, 5/2)$	600.48	$3/2^+, 5/2^+$			
510.3 4	12 4	1095.50	$(3/2^+, 5/2)$	585.06	$(3/2^+)$			
520.0 2	241 12	687.09	$5/2^+$	167.13	$3/2^+$	(M1)	0.00239	$\alpha(\text{K})=0.00212$ 3; $\alpha(\text{L})=0.000231$ 4; $\alpha(\text{M})=3.89 \times 10^{-5}$ 6; $\alpha(\text{N}+..)=5.20 \times 10^{-6}$ 8 $\alpha(\text{N})=4.88 \times 10^{-6}$ 7; $\alpha(\text{O})=3.19 \times 10^{-7}$ 5 Mult.: from $\alpha(\text{K})_{\text{exp}}=0.0020$ 15 (1983Kr11). %I γ =1.26 17 %I γ : using the calculated normalization.
522.5 3	48 6	522.49	$3/2^+, 5/2^+$	0.0	$1/2^+$			
546.5 3	5 1	713.82	$(5/2)^-$	167.13	$3/2^+$			
565.3 3	9 2	1320.70		755.37				
573.0 3	6 1	1095.50	$(3/2^+, 5/2)$	522.49	$3/2^+, 5/2^+$			
585.2 2	809 26	585.06	$(3/2^+)$	0.0	$1/2^+$	M1,E2	0.00207 25	%I γ =21.2 11 $\alpha(\text{K})=0.00183$ 22; $\alpha(\text{L})=0.00020$ 3; $\alpha(\text{M})=3.4 \times 10^{-5}$ 5; $\alpha(\text{N}+..)=4.5 \times 10^{-6}$ 6 $\alpha(\text{N})=4.2 \times 10^{-6}$ 6; $\alpha(\text{O})=2.7 \times 10^{-7}$ 3 %I γ : using the calculated normalization. Mult.: from $\alpha(\text{K})_{\text{exp}}=0.0016$ 5 (1983Kr11); theory: $\alpha(\text{K})(\text{M1})=0.00162$, $\alpha(\text{K})(\text{E2})=0.00204$.
588.3 2	23 3	755.37		167.13	$3/2^+$			
591.0 4	16 6	1507.3	$(1/2^+, 3/2, 5/2^+)$	916.44				
600.5 2	409 14	600.48	$3/2^+, 5/2^+$	0.0	$1/2^+$	E2,M1	0.00193 22	%I γ =10.7 6

⁹⁷Rb β⁻ decay 1990Lh02 (continued)γ(⁹⁷Sr) (continued)

<u>E_γ[†]</u>	<u>I_γ^{†@}</u>	<u>E_i(level)</u>	<u>J_i^π</u>	<u>E_f</u>	<u>J_f^π</u>	<u>Comments</u>
α(K)=0.00171 19; α(L)=0.000189 24; α(M)=3.2×10 ⁻⁵ 4; α(N+..)=4.2×10 ⁻⁶ 5 α(N)=4.0×10 ⁻⁶ 5; α(O)=2.53×10 ⁻⁷ 25 %I _γ : using the calculated normalization. Mult.: from α(K) _{exp} =0.0021 8 (1983Kr11); theory: α(K)(E2)=0.00190, α(K)(M1)=0.00152.						
601.6 3	6 2	768.7		167.13	3/2 ⁺	
644.6 2	132 5	644.73	(3/2) ⁻	0.0	1/2 ⁺	%I _γ =3.47 21 %I _γ : using the calculated normalization.
660.5 4	19 3	1374.67		713.82	(5/2) ⁻	
687.1 3	110 20	687.09	5/2 ⁺	0.0	1/2 ⁺	%I _γ =2.9 6 %I _γ : using the calculated normalization.
687.7 2	75 15	1374.67		687.09	5/2 ⁺	
^x 712.5 5	8 2					
720.3 2	60 3	1320.70		600.48	3/2 ⁺ , 5/2 ⁺	
735.6 2	71 4	1320.70		585.06	(3/2) ⁺	
749.4 3	22 4	916.44		167.13	3/2 ⁺	
768.7 ^a 4	40 6	768.7		0.0	1/2 ⁺	
787.0 4	20 4	1095.50	(3/2 ⁺ , 5/2)	308.13	7/2 ⁺	
789.7 4	31 6	1374.67		585.06	(3/2) ⁺	
818.5 5	55 15	985.49	(3/2 ⁺ , 5/2 ⁺)	167.13	3/2 ⁺	
820.0 5	14 4	1507.3	(1/2 ⁺ , 3/2, 5/2 ⁺)	687.09	5/2 ⁺	
^x 829.5 4	12 3					
^x 872.2 4	9 2					
917.0 4	6 2	916.44		0.0	1/2 ⁺	%I _γ =0.16 6 %I _γ : using the calculated normalization.
985.3 3	110 9	985.49	(3/2 ⁺ , 5/2 ⁺)	0.0	1/2 ⁺	%I _γ =2.9 3 %I _γ : using the calculated normalization.
^x 1013.9 3	8 2					
^x 1053.0 3	23 4					
1207.0 4	15 3	1374.67		167.13	3/2 ⁺	
^x 1242.0 4	12 4					
1320.8 4	28 4	1320.70		0.0	1/2 ⁺	%I _γ =0.74 11 %I _γ : using the calculated normalization.
^x 1375.7 4	20 4					
^x 1423.2 5	7 2					
1480.0 5	14 4	2854.9		1374.67		
1507.3 5	28 5	1507.3	(1/2 ⁺ , 3/2, 5/2 ⁺)	0.0	1/2 ⁺	%I _γ =0.74 14 %I _γ : using the calculated normalization.
1535.3 8	4 2	2854.9		1320.70		
^x 1578.4 5	5 2					
^x 1628.4 5	7 2					
^x 1667.5 5	11 2					
^x 1846.3 5	15 3					
^x 2037.3 5	9 3					

97Rb β- decay 1990Lh02 (continued)

γ(97Sr) (continued)

E_γ †	I_γ †@	$E_i(\text{level})$	J_i^π	E_f	J_f^π
2254.0 6	14 4	2854.9		600.48	3/2+, 5/2+
x2646.0 15	9 3				
x2718.5 15	7 3				
x2800.0 15	11 3				
x2840.0 15	5 2				
x2900.0 15	20 5				

† From 1990Lh02.
‡ Deduced from $\alpha(\text{exp})$ and $\alpha(\text{K})\text{exp}$ (measured intensity balance and $I(\text{K x ray})/I_\gamma$, respectively, in coincidence spectra) (1990Lh02); and from $I(\text{ce})/I_\gamma$ from simultaneously recorded spectra, using transitions of known multipolarity of $\alpha=96$ to 98 isotopes for internal calibration (1983Kr11). Some mult. and δ values, noted in table, are from Adopted Gammas.
From Adopted Gammas.
@ For absolute intensity per 100 decays, multiply by 0.0263 12.
& Total theoretical internal conversion coefficients, calculated using the BrIcc code (2008Ki07) with Frozen orbital approximation based on γ -ray energies, assigned multipolarities, and mixing ratios, unless otherwise specified.
a Placement of transition in the level scheme is uncertain.
x γ ray not placed in level scheme.

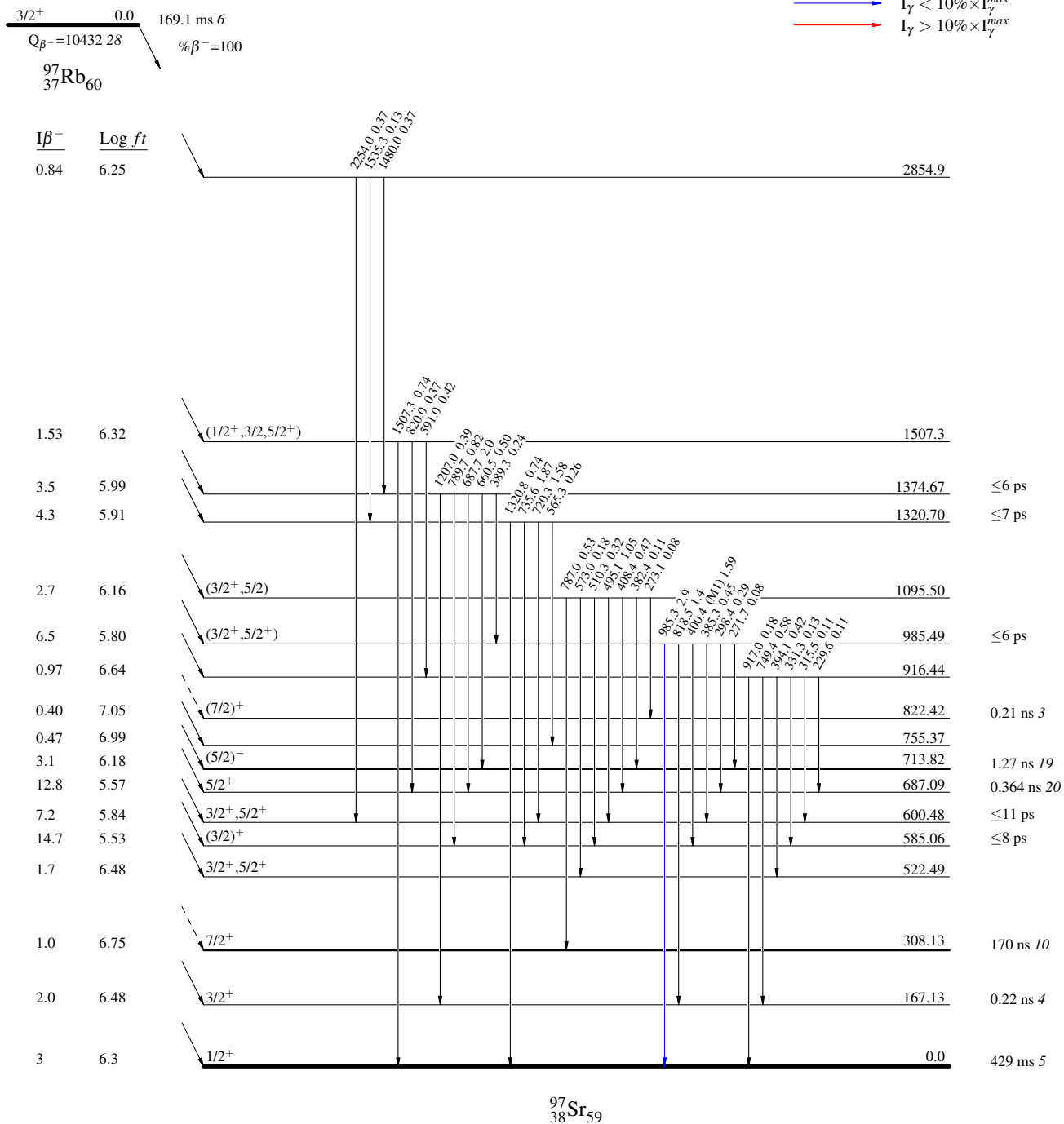
^{97}Rb β^- decay 1990Lh02

Decay Scheme

Intensities: $I_{(\gamma+ce)}$ per 100 decays through this branch

Legend

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



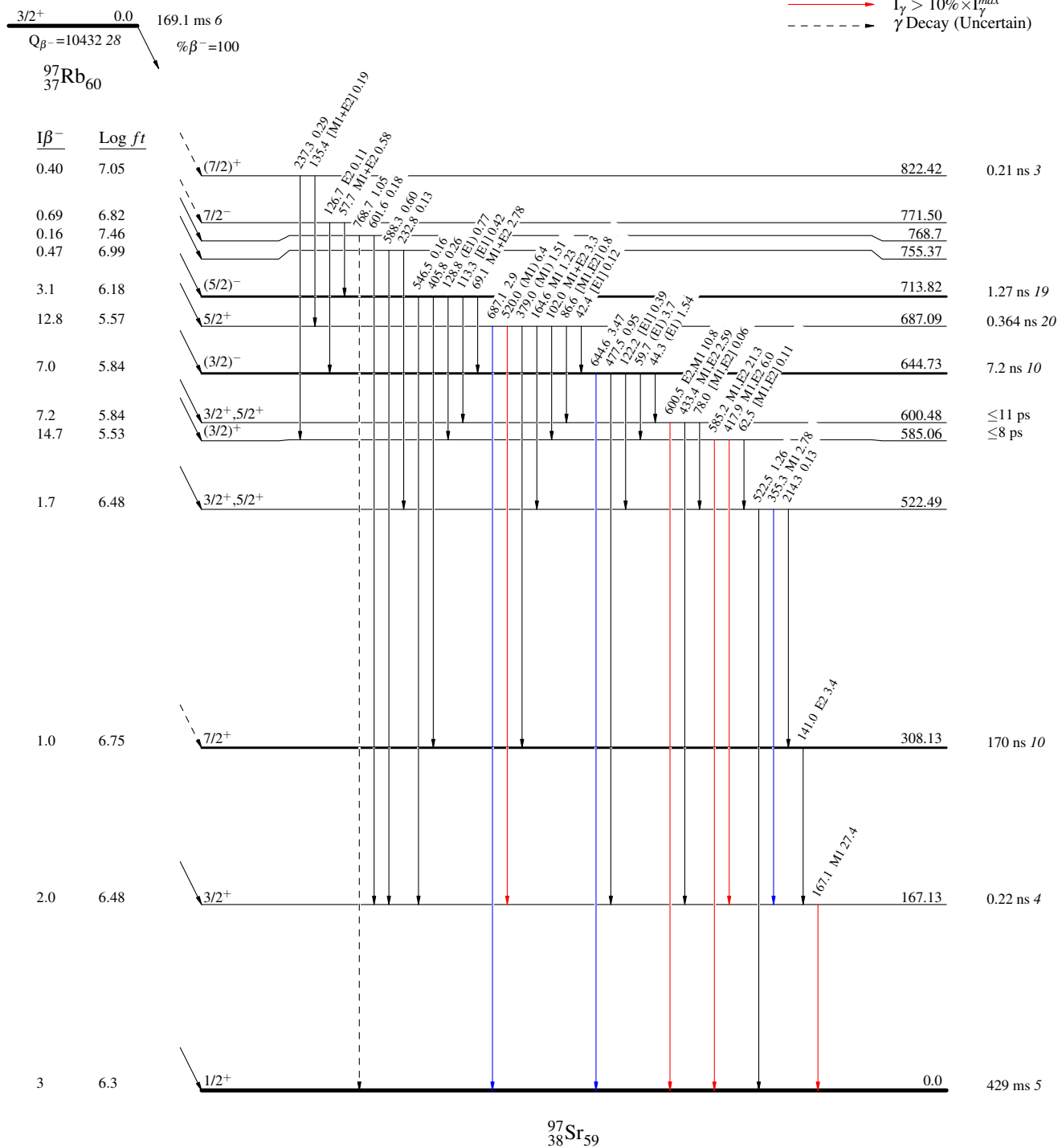
$^{97}\text{Rb} \beta^-$ decay 1990Lh02

Decay Scheme (continued)

Intensities: $I_{(\gamma+ce)}$ per 100 decays through this branch

Legend

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



${}^{97}_{38}\text{Sr}_{59}$ 