^{77}Rb ε decay (3.78 min) 1975BaWR,1975Li13,1975We23

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	Balraj Singh	ENSDF	30-Sep-2020

Parent: ^{77}Rb: E=0.0; J$^{\pi}$=3/2$^-$; $T_{1/2}$=3.78 min *4*; Q(ε)=5339.0 *24*; %ε+%β^+ decay=100.0

^{77}Rb-J$^{\pi}$,$T_{1/2}$: From ^{77}Rb Adopted Levels.

^{77}Rb-Q(ε): From 2017Wa10.

Main references: 1975BaWR, 1975Li13, 1975We23, 1975Bo52.

1975We23 and 1975Bo52 report only intense γ transitions.

The level scheme is mainly from $\gamma\gamma$ data of 1975BaWR and 1975Li13.

Others: 1986Ho22, 1980DeZB, 1979SpZZ, 1976ScZK, 1976BaYW, 1974No08, 1972DiZK, 1972De40, 1972Ar02, 1971Do01.

Total decay energy of 5385 keV *505* deduced (by RADLIST code) from proposed decay scheme is in agreement with the expected value of 5339 keV *3*, indicating that decay scheme is well established.

^{77}Kr Levels

E(level)[†]	J$^{\pi}$[‡]	$T_{1/2}$	Comments
0.0	5/2$^+$	71.25 min *42*	%ε+%β^+=100 $T_{1/2}$,%ε+%β^+: from Adopted Levels.
66.50 *5*	3/2$^-$		
149.94 *9*	7/2$^+$		
245.30 *6*	5/2$^-$		
459.88 *9*	1/2$^-$		
499.58 *12*	7/2$^-$		
577.3 *6*	(3/2$^-$,5/2,7/2$^-$)		
674.98 *21*	(3/2$^+$,5/2)		
714.35 *8*	(1/2$^-$,3/2,5/2$^-$)		
733.3 *6*	(1/2,3/2,5/2)		
747.18 *23*	(3/2$^+$,5/2)		
790.52 *12*	(1/2$^-$,3/2,5/2)		
872.01 *7*	(3/2,5/2)		
955.5[#] *7*	(3/2$^+$,5/2)		
957.83 *10*			
1013.0 *6*	(1/2$^+$,3/2,5/2$^-$)		
1020.76[@] *22*			
1024.8[#] *6*	(3/2,5/2)		
1037.42 *6*	(3/2,5/2)		
1055.5?[#] *10*			
1108.67 *12*	(5/2)		
1154.2[#] *7*			
1243.09 *14*	(1/2$^+$,3/2,5/2$^-$)		
1312.44 *15*	1/2,3/2,5/2$^{(-)}$		
1444.1[#] *7*	1/2,3/2,5/2		
1509.5[#] *7*	(3/2$^+$,5/2)		
1672.48[#] *12*	(3/2,5/2)		
1782.23[@] *11*	1/2,3/2,5/2		
1838.37[@] *8*	(1/2$^+$,3/2,5/2)		
1865.6[#] *9*	(3/2$^+$,5/2)		
1907.6[#] *12*	(3/2$^-$,5/2$^-$)		
1913.48[@] *13*	(1/2$^-$,3/2,5/2)		
2025.73[@] *7*	1/2$^-$,3/2$^-$,5/2$^-$		
2822.65[@] *19*	(3/2$^-$,5/2$^-$)		

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^{77}Rb ε decay (3.78 min) 1975BaWR,1975Li13,1975We23 (continued)

^{77}Kr Levels (continued)

E(level)[†]	J$^{\pi}$[‡]
3007.72[@] *19*	(3/2,5/2)$^-$
3054.30[@] *15*	(1/2$^-$,3/2$^-$,5/2$^-$)

[†] From least-squares fit to Eγ data.
[‡] From Adopted Levels.
[#] From 1975Li13 only.
[@] From 1975BaWR only.

ε,β^+ radiations

β^+ measurements: 1975BaWR, 1975Li13.
$\beta^+\gamma$ measurement: 1975We23, 1982Mo10.
Q value from total γ-absorption: 1993Al03.
Measured β^+ endpoint energy: 3860 *150* (1975Li13), 3975 *120* (1975BaWR) (both β+ singles measurements. These values together with the adopted Q value do not show the strongest β+ feeding to 66 level as given in the decay scheme. The discrepancy could be due to errors in these E(β+) values or in the β+ feeding to 66 level).

E(decay)	E(level)	Iβ^+ [#]	Iε[#]	Log *ft*[‡]	I($\varepsilon+\beta^+$)[†#]	Comments
(2284.7 *24*)	3054.30	0.17 *3*	0.14 *3*	5.8 *1*	0.31 *6*	av Eβ=552.4 *11*; εK=0.3829 *14*; εL=0.04449 *16*; εM+=0.00914 *4*
(2331.3 *24*)	3007.72	0.43 *8*	0.29 *6*	5.5 *1*	0.72 *14*	av Eβ=573.2 *11*; εK=0.3579 *13*; εL=0.04158 *15*; εM+=0.00854 *3*
(2516.4 *24*)	2822.65	0.38 *8*	0.17 *3*	5.8 *1*	0.55 *11*	av Eβ=656.5 *11*; εK=0.2728 *10*; εL=0.03167 *12*; εM+=0.006504 *23*
(3313.3 *24*)	2025.73	3.8 *7*	0.45 *9*	5.6 *1*	4.2 *8*	av Eβ=1022.2 *12*; εK=0.0934 *3*; εL=0.01082 *4*; εM+=0.002221 *7*
(3425.5 *24*)	1913.48	0.58 *12*	0.060 *12*	6.5 *1*	0.64 *13*	av Eβ=1074.5 *12*; εK=0.08189 *23*; εL=0.00948 *3*; εM+=0.001946 *6*
(3431 *3*)	1907.6	0.31 *5*	0.032 *6*	6.8 *1*	0.34 *6*	av Eβ=1077.2 *13*; εK=0.0813 *3*; εL=0.00942 *3*; εM+=0.001933 *6*
(3473 *3*)	1865.6	0.15 *3*	0.015 *3*	7.2 *1*	0.17 *3*	av Eβ=1096.8 *12*; εK=0.07753 *23*; εL=0.00898 *3*; εM+=0.001843 *6*
(3500.6 *24*)	1838.37	1.8 *4*	0.17 *3*	6.1 *1*	2.0 *4*	av Eβ=1109.5 *12*; εK=0.07519 *21*; εL=0.008704 *24*; εM+=0.001787 *5*
(3556.8 *24*)	1782.23	0.97 *17*	0.085 *15*	6.4 *1*	1.06 *19*	av Eβ=1135.8 *12*; εK=0.07063 *19*; εL=0.008176 *22*; εM+=0.001678 *5*
(3666.5 *24*)	1672.48	1.22 *23*	0.094 *18*	6.4 *1*	1.31 *25*	av Eβ=1187.2 *12*; εK=0.06271 *16*; εL=0.007257 *19*; εM+=0.001490 *4*
(3829.5 *25*)	1509.5	0.97 *23*	0.062 *15*	6.6 *1*	1.03 *25*	av Eβ=1263.8 *12*; εK=0.05295 *14*; εL=0.006126 *16*; εM+=0.001258 *4*
(3894.9 *25*)	1444.1	0.8 *3*	0.05 *2*	6.8 *2*	0.8 *3*	av Eβ=1294.7 *12*; εK=0.04960 *13*; εL=0.005737 *15*; εM+=0.001178 *3*
(4026.6 *24*)	1312.44	0.82 *19*	0.043 *10*	6.8 *1*	0.86 *20*	av Eβ=1356.9 *12*; εK=0.04364 *10*; εL=0.005047 *12*; εM+=0.0010360 *2*
(4095.9 *24*)	1243.09	1.1 *3*	0.056 *14*	6.7 *1*	1.2 *3*	av Eβ=1389.7 *12*; εK=0.04088 *10*; εL=0.004727 *11*; εM+=0.0009703 *2*
(4184.8[@] *25*)	1154.2	1.1 *3*	0.047 *13*	6.8 *1*	1.1 *3*	av Eβ=1431.8 *12*; εK=0.03767 *9*; εL=0.004355 *10*; εM+=0.0008939 *2*
(4230.3 *24*)	1108.67	2.7 *6*	0.12 *2*	6.4 *1*	2.8 *6*	av Eβ=1453.4 *12*; εK=0.03615 *8*; εL=0.004179 *9*;

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^{77}Rb ε decay (3.78 min) 1975BaWR,1975Li13,1975We23 (continued)

ε,β^+ radiations (continued)

E(decay)	E(level)	Iβ^+ [#]	Iε [#]	Log ft [‡]	I(ε+β^+) [†#]	Comments
						εM+=0.0008578 *1*
(4301.6 *24*)	1037.42	1.2 *3*	0.046 *12*	6.8 *1*	1.2 *3*	av Eβ=1487.2 *12*; εK=0.03393 *8*; εL=0.003923 *9*; εM+=0.0008052 *1*
(4314.2 *25*)	1024.8	1.4 *4*	0.057 *15*	6.8 *1*	1.5 *4*	av Eβ=1493.2 *12*; εK=0.03356 *8*; εL=0.003880 *9*; εM+=0.0007963 *1*
(4326.0 *25*)	1013.0	1.6 *4*	0.064 *15*	6.7 *1*	1.7 *4*	av Eβ=1498.8 *12*; εK=0.03321 *8*; εL=0.003840 *9*; εM+=0.0007881 *1*
(4383.5 *25*)	955.5	0.55 *19*	0.021 *7*	7.2 *2*	0.57 *20*	av Eβ=1526.2 *12*; εK=0.03160 *7*; εL=0.003653 *8*; εM+=0.0007497 *1*
(4467.0 *24*)	872.01	2.1 *7*	0.074 *23*	6.7 *2*	2.2 *7*	av Eβ=1565.9 *12*; εK=0.02944 *6*; εL=0.003402 *7*; εM+=0.0006983 *1*
(4548.5 *24*)	790.52	1.3 *3*	0.041 *9*	7.0 *1*	1.3 *3*	av Eβ=1604.8 *12*; εK=0.02751 *6*; εL=0.003180 *7*; εM+=0.0006526 *1*
(4591.8 *24*)	747.18	0.54 *10*	0.017 *3*	7.3 *1*	0.56 *10*	av Eβ=1625.5 *12*; εK=0.02655 *6*; εL=0.003069 *6*; εM+=0.0006298 *1*
(4605.7 *25*)	733.3	0.9 *3*	0.03 *1*	7.1 *2*	0.9 *3*	av Eβ=1632.1 *12*; εK=0.02626 *6*; εL=0.003034 *6*; εM+=0.0006228 *1*
(4624.6 *24*)	714.35	2.8 *6*	0.085 *18*	6.6 *1*	2.9 *6*	av Eβ=1641.1 *12*; εK=0.02586 *5*; εL=0.002988 *6*; εM+=0.0006133 *1*
(4664.0 *24*)	674.98	2.3 *6*	0.069 *17*	6.7 *1*	2.4 *6*	av Eβ=1659.9 *12*; εK=0.02506 *5*; εL=0.002895 *6*; εM+=0.0005943 *1*
(4761.7[@] *25*)	577.3	<0.09	<0.002	>8.2	<0.09	av Eβ=1706.6 *12*; εK=0.02320 *5*; εL=0.002681 *6*; εM+=0.0005502 *1*
(4839.4[@] *24*)	499.58	1.6 *4*	0.040 *10*	7.0 *1*	1.6 *4*	av Eβ=1743.9 *12*; εK=0.02186 *4*; εL=0.002525 *5*; εM+=0.0005183 *1* log *ft* is too low for a 7/2⁻ to 3/2⁻ transition. There may be additional γ rays feeding this level.
(4879.1 *24*)	459.88	7.1 *14*	0.18 *3*	6.4 *1*	7.3 *14*	av Eβ=1762.9 *12*; εK=0.02121 *4*; εL=0.002450 *5*; εM+=0.0005029 *1*
(5093.7 *24*)	245.30	12.6 *24*	0.27 *5*	6.2 *1*	12.9 *25*	av Eβ=1865.8 *12*; εK=0.01812 *4*; εL=0.002093 *4*; εM+=0.0004294 *8* E(decay): measured endpoint energy=3670 *490* in coincidence with 393γ (1975We23).
(5189.1 *24*)	149.94	1.5 *5*	0.069 *22*	8.8[1u] *2*	1.6 *5*	av Eβ=1919.8 *12*; εK=0.03808 *7*; εL=0.004420 *8*; εM+=0.0009077 *1*
(5272.5 *24*)	66.50	27 *5*	0.51 *9*	6.0 *1*	28 *5*	av Eβ=1951.8 *12*; εK=0.01598 *3*; εL=0.001846 *3*; εM+=0.0003788 *7*
(5339.0[@] *24*)	0.0	<29	<0.52	>5.9	<30	av Eβ=1983.9 *12*; εK=0.015275 *25*; εL=0.001764 *3*; εM+=0.0003620 *6*

[†] From γ-ray intensity balance, assuming <30% β feeding to g.s. based on log *ft*>5.9 for first-forbidden transition. As the decay does not seem well established, all the ε+β^+ feedings should be considered as upper limits.

[‡] All log *ft* values should be considered as lower limits as the decay scheme does not seem well established.

[#] Absolute intensity per 100 decays.

[@] Existence of this branch is questionable.

γ(^{77}Kr)

Iγ normalization: from ΣI(γ+ce)(gammas to g.s.)=85 *15*, assuming ε+$β^+$ feeding to g.s. as <30%, corresponding to log *ft*>5.9.

$E_γ$[†]	$I_γ$[†c]	E_i(level)	$J^π_i$	E_f	$J^π_f$	Mult.[‡]	δ[‡]	α[d]	Comments
[x]39.2[&g] *4*	0.5 *2*								
66.52 *5*	100	66.50	3/2⁻	0.0	5/2⁺	(E1)		0.300	α(K)=0.266 *4*; α(L)=0.0292 *5*; α(M)=0.00468 *7*; α(N)=0.000453 *7*
78.1[#] *7*	0.20 *7*	577.3	(3/2⁻,5/2,7/2⁻)	499.58	7/2⁻	[D,E2]		1.3 *11*	
[x]106[#] *1*	0.15 *6*								
129[#] *1*	≈0.1	1154.2		1024.8	(3/2,5/2)				
149.93 *9*	7.6 *5*	149.94	7/2⁺	0.0	5/2⁺	M1+E2	−0.16 *10*	0.047 *7*	α(K)=0.042 *6*; α(L)=0.0047 *8*; α(M)=0.00076 *12*; α(N)=7.6×10⁻⁵ *11*
178.78 *8*	38.9 *14*	245.30	5/2⁻	66.50	3/2⁻	(M1(+E2))	−0.09 *9*	0.0278 *20*	α(K)=0.0246 *17*; α(L)=0.00272 *22*; α(M)=0.00044 *4*; α(N)=4.4×10⁻⁵ *4*
216.0[#g] *15*	≈0.1	459.88	1/2⁻	245.30	5/2⁻				
237.1[#] *5*	0.7 *2*	1108.67	(5/2)	872.01	(3/2,5/2)				
245.24 *10*	1.3 *5*	245.30	5/2⁻	0.0	5/2⁺	[E1]			
254.3 *3*	3.12 *4*	499.58	7/2⁻	245.30	5/2⁻	(M1(+E2))	<0.05	0.01102	α(K)=0.00976 *15*; α(L)=0.001065 *16*; α(M)=0.000173 *3*; α(N)=1.74×10⁻⁵ *3*
254.5 *3*	1.04 *16*	714.35	(1/2⁻,3/2,5/2⁻)	459.88	1/2⁻				
291.0[#] *15*	0.3 *1*	1444.1	1/2,3/2,5/2	1154.2					
306.43 *25*	0.5 *3*	1020.76		714.35	(1/2⁻,3/2,5/2⁻)				
354.1[#] *8*	0.6 *2*	1312.44	1/2,3/2,5/2$^{(-)}$	957.83					
393.37 *9*	17.1 *7*	459.88	1/2⁻	66.50	3/2⁻				
433.06 *14*	1.47 *11*	499.58	7/2⁻	66.50	3/2⁻	E2			
468.99 *19*	2.08 *13*	714.35	(1/2⁻,3/2,5/2⁻)	245.30	5/2⁻				
511 *2*	≈1.4	577.3	(3/2⁻,5/2,7/2⁻)	66.50	3/2⁻				$I_γ$: determined from the decay scheme.
525.0[#] *15*	≈0.2	674.98	(3/2⁺,5/2)	149.94	7/2⁺				
545.23 *15*	2.0 *1*	790.52	(1/2⁻,3/2,5/2)	245.30	5/2⁻				
554[#] *1*	0.6 *2*	1013.0	(1/2⁺,3/2,5/2⁻)	459.88	1/2⁻				
568.9[#] *10*	0.3 *1*	1243.09	(1/2⁺,3/2,5/2⁻)	674.98	(3/2⁺,5/2)				
577.2[#] *5*	2.1 *3*	1154.2		577.3	(3/2⁻,5/2,7/2⁻)				
597.25[#] *21*	0.78 *4*	747.18	(3/2⁺,5/2)	149.94	7/2⁺				
608.6 *3*	4.3 *5*	674.98	(3/2⁺,5/2)	66.50	3/2⁻				
609.04 *29*	1.02 *21*	1108.67	(5/2)	499.58	7/2⁻				
617[#] *1*	≈0.3	1672.48	(3/2,5/2)	1055.5?					
626.69 *12*	5.6 *5*	872.01	(3/2,5/2)	245.30	5/2⁻				
634.0[#] *8*	0.4 *1*	1672.48	(3/2,5/2)	1037.42	(3/2,5/2)				
647.88 *10*	4.5 *3*	714.35	(1/2⁻,3/2,5/2⁻)	66.50	3/2⁻				

γ(^{77}Kr) (continued)

E_γ[†]	I_γ[†c]	E_i(level)	J_i^π	E_f	J_f^π
666.8[#] *7*	2.4 *3*	733.3	(1/2,3/2,5/2)	66.50	3/2$^-$
674.9 *3*	0.48 *18*	674.98	(3/2$^+$,5/2)	0.0	5/2$^+$
712.36[a] *12*	0.48[a] *12*	957.83		245.30	5/2$^-$
713.4[@] *4*	0.48 *8*	2025.73	1/2$^-$,3/2$^-$,5/2$^-$	1312.44	1/2,3/2,5/2$^{(-)}$
724.5[#] *7*	0.9 *2*	790.52	(1/2$^-$,3/2,5/2)	66.50	3/2$^-$
729.1[#] *9*	0.4 *2*	1444.1	1/2,3/2,5/2	714.35	(1/2$^-$,3/2,5/2$^-$)
745.0[@] *3*	0.32 *4*	1782.23	1/2,3/2,5/2	1037.42	(3/2,5/2)
746.5 *15*	≈0.2	747.18	(3/2$^+$,5/2)	0.0	5/2$^+$
756.0[#] *15*	≈0.2	1865.6	(3/2$^+$,5/2)	1108.67	(5/2)
776.1[#] *9*	0.8 *2*	1509.5	(3/2$^+$,5/2)	733.3	(1/2,3/2,5/2)
779.8[#] *8*	1.9 *3*	1024.8	(3/2,5/2)	245.30	5/2$^-$
782.6 *5*	0.74 *26*	1243.09	(1/2$^+$,3/2,5/2$^-$)	459.88	1/2$^-$
792.2 *3*	0.55 *13*	1037.42	(3/2,5/2)	245.30	5/2$^-$
800.94 *11*	0.88 *4*	1838.37	(1/2$^+$,3/2,5/2)	1037.42	(3/2,5/2)
805.6[f] *1*	2.5[f] *6*	872.01	(3/2,5/2)	66.50	3/2$^-$
805.6[f#] *7*	1.0[f] *3*	955.5	(3/2$^+$,5/2)	149.94	7/2$^+$
[x]826.0[#] *15*	≈0.1				
834.1[#] *10*	0.4 *2*	1509.5	(3/2$^+$,5/2)	674.98	(3/2$^+$,5/2)
852.58 *13*	1.39 *7*	1312.44	1/2,3/2,5/2$^{(-)}$	459.88	1/2$^-$
[x]860.0[#] *7*	1.1 *2*				
871.3[#] *8*	0.5 *2*	872.01	(3/2,5/2)	0.0	5/2$^+$
910.2[@] *1*	1.02 *4*	1782.23	1/2,3/2,5/2	872.01	(3/2,5/2)
946.8[#] *10*	0.7 *2*	1013.0	(1/2$^+$,3/2,5/2$^-$)	66.50	3/2$^-$
958.7 *1*	2.71 *18*	1108.67	(5/2)	149.94	7/2$^+$
966.34 *10*	1.13 *6*	1838.37	(1/2$^+$,3/2,5/2)	872.01	(3/2,5/2)
970.87 *10*	4.12 *22*	1037.42	(3/2,5/2)	66.50	3/2$^-$
988.27[ebg] *10*	3.07[e] *18*	1055.5?		66.50	3/2$^-$
988.27[e] *10*	3.07[e] *18*	2025.73	1/2$^-$,3/2$^-$,5/2$^-$	1037.42	(3/2,5/2)
991.67[@] *20*	0.52 *4*	1782.23	1/2,3/2,5/2	790.52	(1/2$^-$,3/2,5/2)
1012.3 *8*	1.6 *3*	1013.0	(1/2$^+$,3/2,5/2$^-$)	0.0	5/2$^+$
1023.9[#] *10*	0.8 *2*	1024.8	(3/2,5/2)	0.0	5/2$^+$
1037.43 *10*	2.08 *10*	1037.42	(3/2,5/2)	0.0	5/2$^+$
1067.79 *10*	1.16 *6*	2025.73	1/2$^-$,3/2$^-$,5/2$^-$	957.83	
1109[#] *1*	0.6 *2*	1108.67	(5/2)	0.0	5/2$^+$
1123.83[@] *30*	0.34 *1*	1838.37	(1/2$^+$,3/2,5/2)	714.35	(1/2$^-$,3/2,5/2$^-$)
1153.79 *10*	1.88 *11*	2025.73	1/2$^-$,3/2$^-$,5/2$^-$	872.01	(3/2,5/2)
1176.67 *15*	0.77 *9*	1243.09	(1/2$^+$,3/2,5/2$^-$)	66.50	3/2$^-$
1199.2 *4*	0.43 *10*	1913.48	(1/2$^-$,3/2,5/2)	714.35	(1/2$^-$,3/2,5/2$^-$)

$^{77}_{36}Kr_{41}$-5

γ(^{77}Kr) (continued)

E_γ[†]	I_γ[†c]	E_i(level)	J^π_i	E_f	J^π_f
1235.35[@] 25	0.14 3	2025.73	$1/2^-,3/2^-,5/2^-$	790.52	$(1/2^-,3/2,5/2)$
1242.9 3	0.28 4	1243.09	$(1/2^+,3/2,5/2^-)$	0.0	$5/2^+$
1311.37 10	0.57 3	2025.73	$1/2^-,3/2^-,5/2^-$	714.35	$(1/2^-,3/2,5/2^-)$
1360[#] 2	≈0.3	1509.5	$(3/2^+,5/2)$	149.94	$7/2^+$
1378.1[#] 15	0.7 3	1444.1	1/2,3/2,5/2	66.50	$3/2^-$
1408[#] 2	≈0.1	1907.6	$(3/2^-,5/2^-)$	499.58	$7/2^-$
1427.2 4	0.34 12	1672.48	(3/2,5/2)	245.30	$5/2^-$
1448[#] 2	≈0.2	1907.6	$(3/2^-,5/2^-)$	459.88	$1/2^-$
1511[#] 2	≈0.3	1509.5	$(3/2^+,5/2)$	0.0	$5/2^+$
[x]1541.5[#] 15	0.5 2				
1606.00 12	0.72 4	1672.48	(3/2,5/2)	66.50	$3/2^-$
[x]1631.5[#] 15	0.4 2				
1662[#] 2	≈0.3	1907.6	$(3/2^-,5/2^-)$	245.30	$5/2^-$
1668.15[@] 12	0.70 3	1913.48	$(1/2^-,3/2,5/2)$	245.30	$5/2^-$
1672.4 3	0.53 3	1672.48	(3/2,5/2)	0.0	$5/2^+$
1716[#] 1	≈0.1	1865.6	$(3/2^+,5/2)$	149.94	$7/2^+$
1801.9 3	0.23 3	2822.65	$(3/2^-,5/2^-)$	1020.76	
1838.41 13	1.23 6	1838.37	$(1/2^+,3/2,5/2)$	0.0	$5/2^+$
2340.03[@] 25	0.21 3	3054.30	$(1/2^-,3/2^-,5/2^-)$	714.35	$(1/2^-,3/2,5/2^-)$
2508.00[@] 25	0.22 3	3007.72	$(3/2,5/2)^-$	499.58	$7/2^-$
2577.28[@] 25	0.49 5	2822.65	$(3/2^-,5/2^-)$	245.30	$5/2^-$
2594.33[@] 14	0.33 3	3054.30	$(1/2^-,3/2^-,5/2^-)$	459.88	$1/2^-$
2762.45[@] 25	1.04 8	3007.72	$(3/2,5/2)^-$	245.30	$5/2^-$
2822.6[@] 4	0.24 3	2822.65	$(3/2^-,5/2^-)$	0.0	$5/2^+$

[†] Weighted average of 1975BaWR, 1975Li13, 1975We23 and 1975Bo52. In some cases uncertainties quoted by 1975BaWR are unrealistically low. The evaluator has increased these to 0.1 keV for Eγ and 5% for Iγ.

[‡] From Adopted Gammas, unless otherwise stated or assumed for the purpose of γ-ray intensity balance.

[#] γ reported by 1975Li13 only.

[@] γ reported by 1975BaWR only.

[&] Placed between 500 and 460 levels (1975Li13); however, evaluator considers this placement unlikely from adopted J^π values of $7/2^-$ and $1/2^-$ for 500 and 460 levels, respectively.

[a] From $\gamma\gamma$ data of 1975BaWR. A doublet is proposed near this energy.

[b] Placement from 1975Li13. $\gamma\gamma$ data of 1975BaWR support main placement with 2026 level.

[c] For absolute intensity per 100 decays, multiply by 0.57 10.

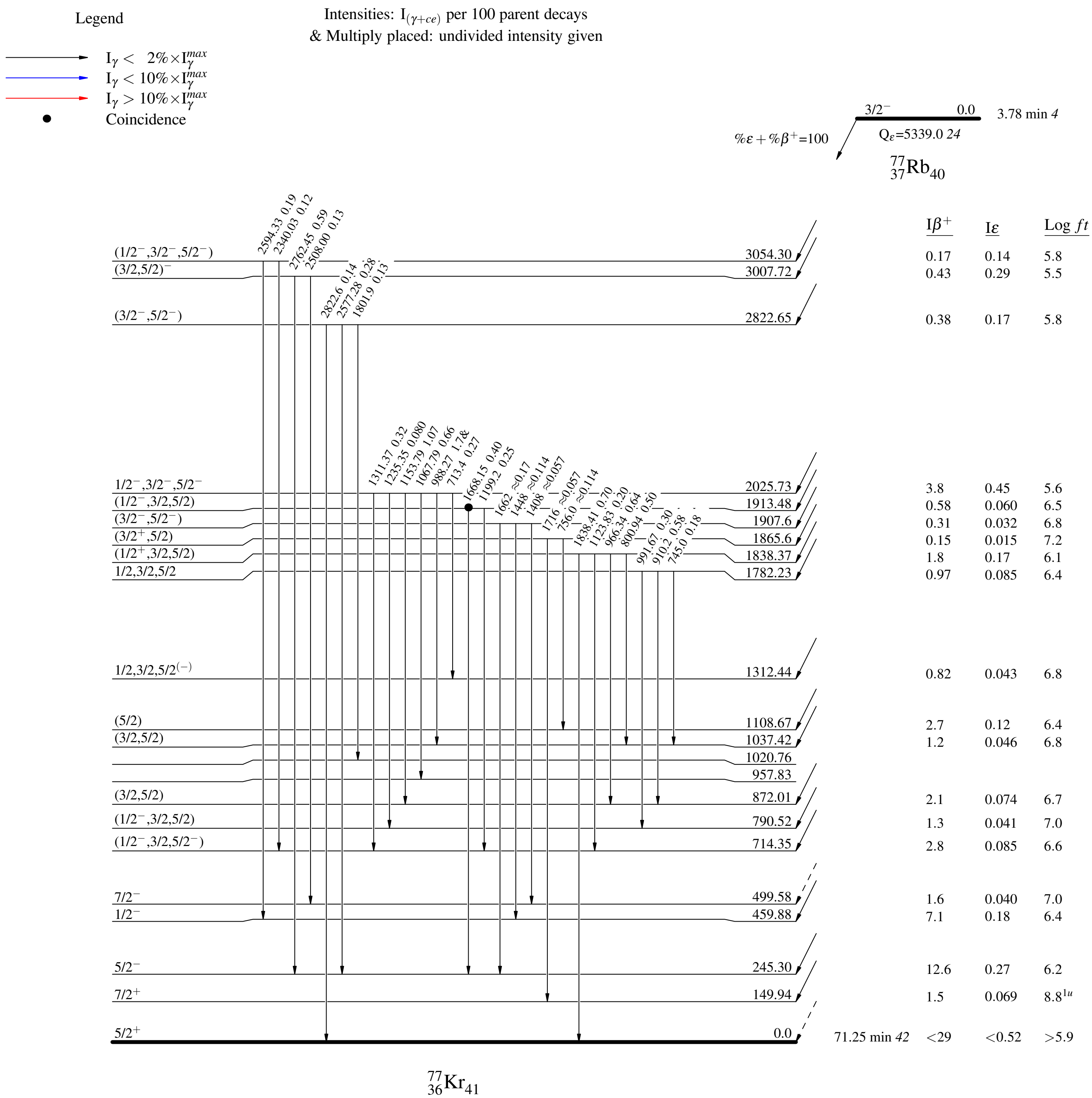
γ(^{77}Kr) (continued)

[d] 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.
[e] Multiply placed with undivided intensity.
[f] Multiply placed with intensity suitably divided.
[g] Placement of transition in the level scheme is uncertain.
[x] γ ray not placed in level scheme.

$^{77}_{36}$Kr$_{41}$-7

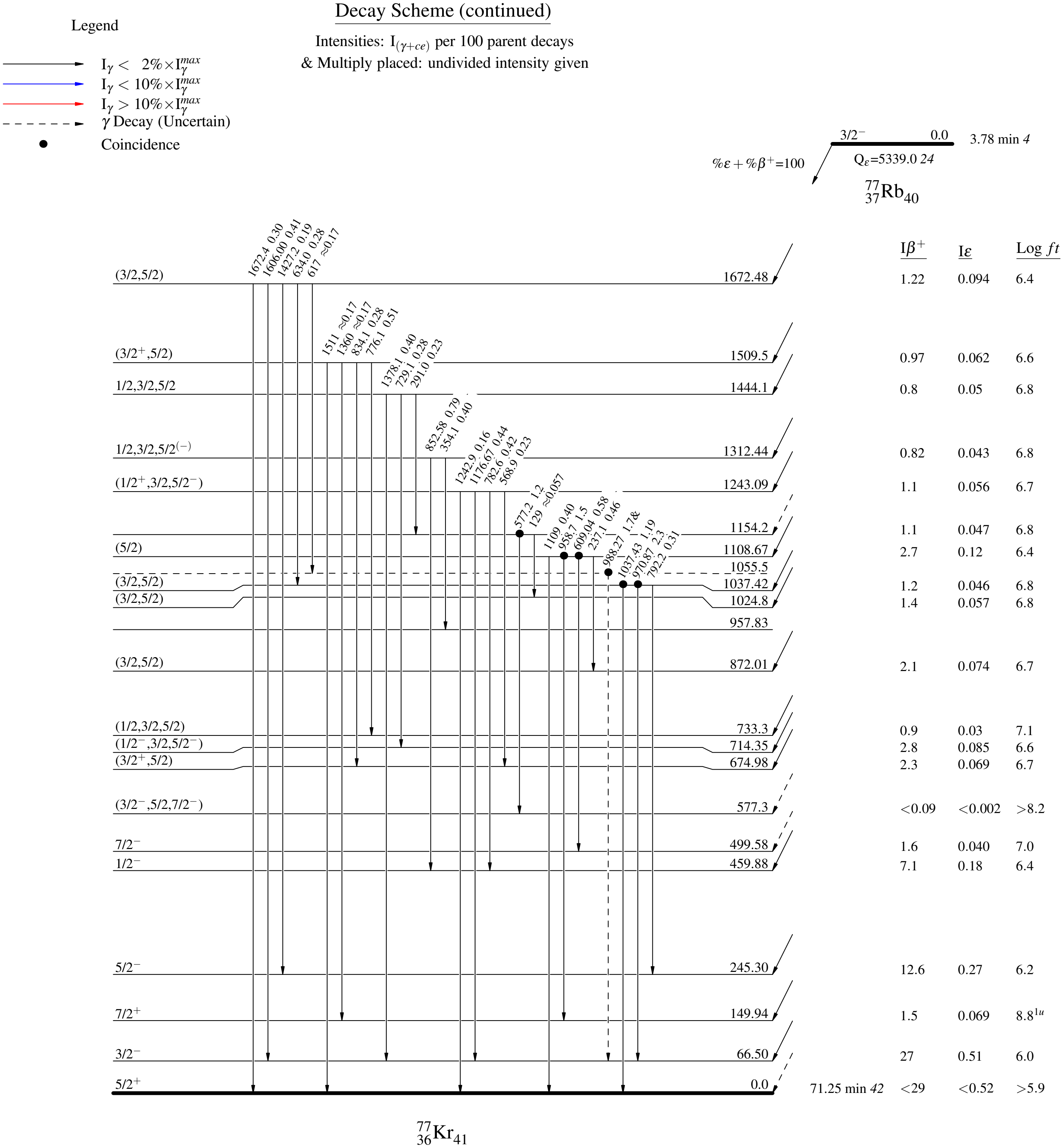
^{77}Rb ε decay (3.78 min) 1975BaWR,1975Li13,1975We23

Decay Scheme



^{77}Rb ε decay (3.78 min) 1975BaWR,1975Li13,1975We23

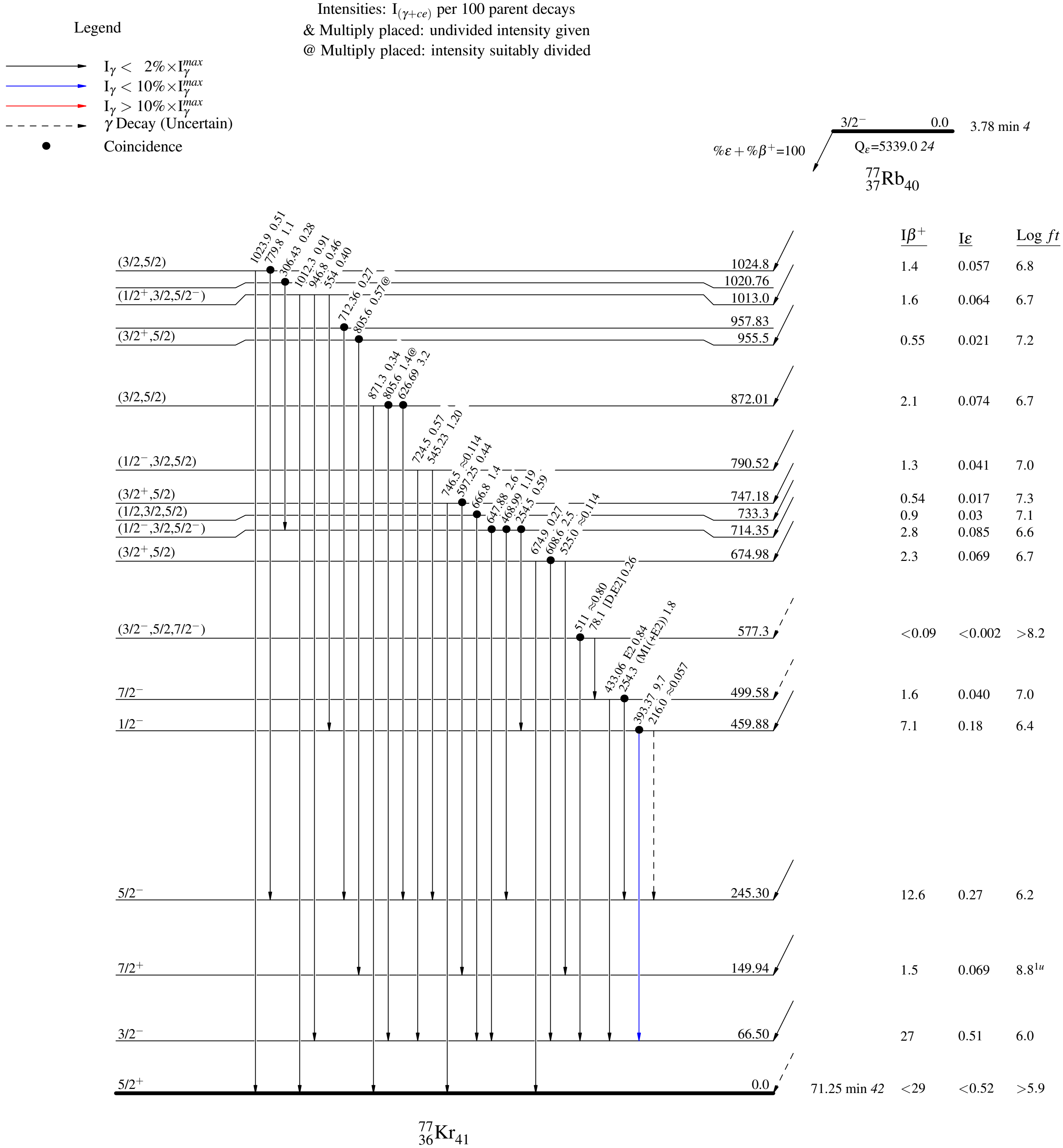
Decay Scheme (continued)



^{77}Rb ε decay (3.78 min) 1975BaWR,1975Li13,1975We23

Decay Scheme (continued)

Intensities: $I_{(\gamma+ce)}$ per 100 parent decays
& Multiply placed: undivided intensity given
@ Multiply placed: intensity suitably divided



^{77}Rb ε decay (3.78 min) 1975BaWR,1975Li13,1975We23

Decay Scheme (continued)

Intensities: $I_{(\gamma+ce)}$ per 100 parent decays
& Multiply placed: undivided intensity given
@ Multiply placed: intensity suitably divided