^{76}Rb $\varepsilon+\beta^+$ decay (36.5 s) 2005Gi17,1985Pi08,1984Mo22

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	Balraj Singh, Jun Chen and Ameenah R. Farhan	NDS 194,3 (2024)	8-Jan-2024

Parent: ^{76}Rb: E=0.0; J$^\pi$=1$^-$; $T_{1/2}$=36.5 s *6*; Q($\varepsilon+\beta^+$)=8535 *4*; %$\varepsilon+\beta^+$ decay=100

^{76}Rb-J$^\pi$,$T_{1/2}$: From ^{76}Rb Adopted Levels.

^{76}Rb-Q($\varepsilon+\beta^+$): From 2021Wa16. Measured Q(ε)=8250 *150* (1993Al03), 8094 *162* (1983Li11), 8063 *44* (1982Mo10).

2005Gi17: ^{76}Rb isotope produced in spallation reaction on a Nb target with a 1 GeV proton beam at ISOLDE isotopic mass separator. Measured Eγ, Iγ, $\gamma\gamma$, $\beta\gamma\gamma$ coin, lifetimes by $\beta\gamma\gamma$(t), ce. Deduced levels, J, π, conversion coefficients, multipolarities, γ branching ratios.

1984Mo22 (also 1982Mo10): measured Eγ, Iγ, $\gamma\gamma$- and $\beta^+\gamma$-coin, mass-separated source.

1985Pi08: measured Eγ, Iγ, $\gamma\gamma$-coin.

Others:

2013Pe13: Gamow-Teller strength distributions B(GT) deduced from total absorption spectrometer (TAS) system. ^{76}Rb nuclei produced from ε decay of ^{76}Sr and by spallation reaction Nb(p,X), E(p)=1.4 GeV proton beam from PS Booster on Nb target of 52 g/cm^2 at ISOLDE-CERN facility. The reaction products from the spallation were ionized in a surface ionization source, separated by HRS and GPS separators at ISOLDE, then implanted onto a 55μm thick aluminized mylar tape to be inserted into the spectrometer. Measured γ radiation in singles and coincidence modes using the total absorption spectrometer (TAS) Lucrecia consisting of a 38 cm x 38 cm cylindrical single NaI(Tl) crystal covering a solid angle of $\approx 4\pi$, with a transverse hole of 7.5 cm diameter for placement of additional detectors; a β scintillation counter, and a Ge telescope for detection of x rays and γ rays in coincidence modes. Deduced $\varepsilon+\beta^+$ feedings, pseudo-levels, Gamow-Teller strength distributions. Comparison with quasiparticle random-phase approximation calculations.

γ, $\gamma\gamma$-coin: 1975Bo52, 1975We23.

$\gamma\gamma(\theta)$: 1978LiZU.

$\beta^+\gamma$-coin: 1983Li11, 1976DaYR, 1975We23.

Q(ε): 1993Al03 (by total γ absorption), 1983Li11 ($\beta^+\gamma$-coin), 1982Mo10 (β^+).

^{76}Rb production and $T_{1/2}$(^{76}Rb): 1993Al03, 1979No07, 1979Lu07, 1979De43, 1975Ra03, 1975Bo52, 1974DeXQ, 1972Ve02, 1969Ch18.

^{76}Kr Levels

E(level)†	J$^{\pi\&}$	$T_{1/2}$$^@$	Comments
0.0	0$^+$		
424.05 *7*	2$^+$		
769.94 *9*	0$^+$	42 ps *6*	J$^\pi$: from (346γ)(424γ)(θ) (1978LiZU).
1034.75 *9*	4$^+$		
1221.72 *7*	2$^+$		
1598.07 *8*	(0)$^+$	<4.7 ps	
1687.32 *8*	2$^+$	0.326 ps *35*	
1733.26 *10*	3$^+$		
2091.49 *10*	(2)$^+$	<34 ps	
2104.33 *9*	1$^-$	16 ps *5*	
2140.16‡ *16*	(1,2$^+$)		
2192.50‡ *12*			
2227.28 *9*	2$^-$	25 ps *6*	
2257.54 *9*	3$^-$	<5.7 ps	
2332.70‡ *16*	(1$^-$)		
2571.01 *8*	1$^-$	16 ps *4*	
2581.11‡ *10*	(2$^+$)		
2700.16‡ *13*	2$^+$	<27 ps	
2742.27‡ *22*	(4$^-$)		
2774.94 *12*	0$^+$,1,2	22 ps *10*	
2816.57 *18*	(1,2$^+$)	<13 ps	

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^{76}Rb $\varepsilon+\beta^{+}$ decay (36.5 s) 2005Gi17,1985Pi08,1984Mo22 (continued)

^{76}Kr Levels (continued)

E(level)†	Jπ&	$T_{1/2}$@	E(level)†	E(level)†
2926.59 *12*	0⁻,1⁻,2⁻	21 ps *5*	4700# *20*	6140# *20*
2970.1‡ *3*	(0⁺,1,2)	<39 ps	4740# *20*	6180# *20*
3024.42 *9*	(2)⁻	18 ps *6*	4780# *20*	6220# *20*
3242.1‡ *3*	(1,2⁺)	<23 ps	4820# *20*	6260# *20*
3275.91‡ *21*	(1⁺,2)		4860# *20*	7340# *20*
3421.6‡ *5*	(0⁺,1,2)	<24 ps	4900# *20*	7380# *20*
3456.1‡ *5*	(0⁻,1,2)		4940# *20*	7420# *20*
3602.81‡ *13*	1⁻	<9.7 ps	4980# *20*	7460# *20*
3636.3‡ *3*	1,2⁽⁺⁾		5020# *20*	7500# *20*
3672.24‡ *22*	(0,1,2)		5060# *20*	7540# *20*
3700# *20*			5100# *20*	7580# *20*
3740# *20*			5140# *20*	7620# *20*
3780# *20*			5180# *20*	7660# *20*
3820# *20*			5220# *20*	7700# *20*
3860# *20*			5260# *20*	7740# *20*
3900# *20*			5300# *20*	7780# *20*
3940# *20*			5340# *20*	7820# *20*
3978.0‡ *3*	1,2⁽⁺⁾	<17 ps	5380# *20*	7860# *20*
3986.6‡ *3*	1,2⁽⁺⁾	27 ps *18*	5420# *20*	7900# *20*
4026.72‡ *17*	1,2⁽⁺⁾	<17 ps	5460# *20*	7940# *20*
4060# *20*			5500# *20*	7980# *20*
4097.74‡ *20*	1,2⁽⁺⁾	<18 ps	5540# *20*	8020# *20*
4140# *20*			5580# *20*	8060# *20*
4180# *20*			5620# *20*	8100# *20*
4220# *20*			5660# *20*	8140# *20*
4260# *20*			5700# *20*	8180# *20*
4289.42‡ *22*	(0,1,2)⁻		5740# *20*	8220# *20*
4340# *20*			5780# *20*	8260# *20*
4380# *20*			5820# *20*	8300# *20*
4420# *20*			5860# *20*	8340# *20*
4460# *20*			5900# *20*	8380# *20*
4500# *20*			5940# *20*	8420# *20*
4540# *20*			5980# *20*	8460# *20*
4580# *20*			6020# *20*	8500# *20*
4620# *20*			6060# *20*	
4660# *20*			6100# *20*	

† From a least-squares fit to Eγ data.
‡ New level reported by 2005Gi17.
# Pseudo level based on TAS results in 2013Pe13, a group at 8540 with ε feeding of 0.002% *11* is omitted here since it is above the Q(ε) value. This group is not included in Adopted dataset.
@ From $\beta\gamma$(t) (2005Gi17).
& From Adopted Levels.

^{76}Rb $\varepsilon+\beta^+$ decay (36.5 s) 2005Gi17,1985Pi08,1984Mo22 (continued)

ε,β^+ radiations

av Eβ: Additional information 1.

E(decay)	E(level)	Iβ^+ #	Iε#	Log *ft*	I($\varepsilon+\beta^+$)†#	Comments
(35 *21*)	8500		0.0012 *9*	3.1 *+12−16*	0.0012 *9*	εK=0.74 *7*; εL=0.21 *6*; εM+=0.050 *13*
(75 *21*)	8460		6×10^{-4} *4*	4.3 *+7−6*	6×10^{-4} *4*	εK=0.833 *25*; εL=0.136 *19*; εM+=0.031 *5*
(115 *21*)	8420		3.5×10^{-4} *17*	4.9 *+5−4*	3.5×10^{-4} *17*	εK=0.852 *7*; εL=0.121 *6*; εM+=0.0274 *15*
(155 *21*)	8380		2.6×10^{-4} *12*	5.4 *+4−3*	2.6×10^{-4} *12*	εK=0.860 *4*; εL=0.1146 *28*; εM+=0.0258 *8*
(195 *21*)	8340		2.7×10^{-4} *9*	5.55 *+28−24*	2.7×10^{-4} *9*	εK=0.8639 *23*; εL=0.1112 *17*; εM+=0.0249 *5*
(235 *21*)	8300		3.9×10^{-4} *4*	5.56 *+13−14*	3.9×10^{-4} *4*	εK=0.8667 *16*; εL=0.1090 *11*; εM+=0.0244 *4*
(275 *21*)	8260		7.0×10^{-4} *18*	5.45 *+20−18*	7.0×10^{-4} *18*	εK=0.8686 *12*; εL=0.1075 *8*; εM+=0.02397 *32*
(315 *21*)	8220		0.0013 *5*	5.31 *+28−21*	0.0013 *5*	εK=0.870 *1*; εL=0.1064 *7*; εM+=0.02369 *27*
(355 *21*)	8180		0.0023 *8*	5.17 *+25−19*	0.0023 *8*	εK=0.8710 *8*; εL=0.1055 *5*; εM+=0.02347 *25*
(395 *21*)	8140		0.0038 *6*	5.05 *+13−12*	0.0038 *6*	εK=0.8718 *7*; εL=0.1048 *5*; εM+=0.02330 *22*
(435 *21*)	8100		0.00569 *18*	4.96 *+6−7*	0.00569 *18*	εK=0.8725 *6*; εL=0.1043 *4*; εM+=0.02317 *21*
(475 *21*)	8060		0.0077 *4*	4.90 *7*	0.0077 *4*	εK=0.8731 *6*; εL=0.1039 *3*; εM+=0.02305 *20*
(515 *21*)	8020		0.0092 *4*	4.90 *6*	0.0092 *4*	εK=0.8735 *5*; εL=0.10350 *31*; εM+=0.02296 *19*
(555 *21*)	7980		0.0090 *9*	4.97 *+9−8*	0.0090 *9*	εK=0.8739 *5*; εL=0.10318 *29*; εM+=0.02288 *18*
(595 *21*)	7940		0.0067 *8*	5.16 *9*	0.0067 *8*	εK=0.8743 *5*; εL=0.10291 *27*; εM+=0.02281 *18*
(635 *21*)	7900		0.0038 *4*	5.47 *+9−8*	0.0038 *4*	εK=0.8746 *5*; εL=0.10267 *25*; εM+=0.02275 *17*
(675 *21*)	7860		0.00168 *32*	5.88 *+13−11*	0.00168 *32*	εK=0.8748 *4*; εL=0.10246 *23*; εM+=0.02270 *17*
(715 *21*)	7820		7.0×10^{-4} *22*	6.31 *+20−15*	7.0×10^{-4} *22*	εK=0.8751 *4*; εL=0.10228 *22*; εM+=0.02265 *16*
(755 *21*)	7780		3.1×10^{-4} *11*	6.71 *+22−17*	3.1×10^{-4} *11*	εK=0.8753 *4*; εL=0.10211 *21*; εM+=0.02260 *16*
(795 *21*)	7740		1.6×10^{-4} *7*	7.04 *+28−19*	1.6×10^{-4} *7*	εK=0.8755 *4*; εL=0.10196 *20*; εM+=0.02257 *16*
(835 *21*)	7700		1.1×10^{-4} *5*	7.25 *+29−19*	1.1×10^{-4} *5*	εK=0.8756 *4*; εL=0.10183 *20*; εM+=0.02254 *16*
(875 *21*)	7660		9×10^{-5} *4*	7.38 *+29−19*	9×10^{-5} *4*	εK=0.8758 *4*; εL=0.10171 *19*; εM+=0.02250 *16*
(915 *21*)	7620		1.0×10^{-4} *5*	7.37 *+33−21*	1.0×10^{-4} *5*	εK=0.8759 *4*; εL=0.10160 *19*; εM+=0.02248 *16*
(955 *21*)	7580		1.4×10^{-4} *5*	7.26 *+22−16*	1.4×10^{-4} *5*	εK=0.8760 *4*; εL=0.10150 *18*; εM+=0.02245 *15*
(995 *21*)	7540		2.1×10^{-4} *7*	7.12 *+20−15*	2.1×10^{-4} *7*	εK=0.8762 *4*; εL=0.10141 *18*; εM+=0.02243 *15*
(1035 *21*)	7500	6.59×10^{-13}	3.7×10^{-4} *6*	25.5	3.7×10^{-4} *6*	av Eβ=0.04; εK=0.8763 *4*; εL=0.10132 *17*; εM+=0.02241 *15*
(1075 *21*)	7460	2.49×10^{-9}	7.3×10^{-4} *9*	6.65 *8*	7.3×10^{-4} *9*	av Eβ=27 *10*; εK=0.8764 *4*; εL=0.10125 *17*; εM+=0.02239 *15*

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^{76}Rb ε+β^+ decay (36.5 s) 2005Gi17,1985Pi08,1984Mo22 (continued)

ϵ,β^+ radiations (continued)

E(decay)	E(level)	Iβ$^+$ #	Iε#	Log *ft*	I(ε+β$^+$)†#	Comments
(1115 *21*)	7420	7.62×10^{-8}	0.0015 *6*	6.37 *+25−17*	0.0015 *6*	av Eβ=45 *9*; εK=0.8764 *4*; εL=0.10117 *17*; εM+=0.02236 *15*
(1155 *21*)	7380	8.72×10^{-7}	0.0034 *16*	6.04 *+30−19*	0.0034 *16*	av Eβ=63 *9*; εK=0.8763 *4*; εL=0.10108 *17*; εM+=0.02234 *15*
(1195 *21*)	7340	6×10^{-6} *5*	0.0073 *31*	5.74 *+27−18*	0.0073 *31*	av Eβ=81 *9*; εK=0.8759 *6*; εL=0.10096 *17*; εM+=0.02232 *15*
(2275 *21*)	6260	0.059 *8*	0.047 *4*	5.51 *+7−6*	0.106 *9*	av Eβ=547 *9*; εK=0.389 *13*; εL=0.0444 *15*; εM+=0.0098 *3*
(2315 *21*)	6220	0.064 *8*	0.046 *4*	5.53 *+7−6*	0.110 *9*	av Eβ=564 *9*; εK=0.367 *13*; εL=0.0419 *14*; εM+=0.00926 *28*
(2355 *21*)	6180	0.067 *5*	0.0434 *28*	5.57 *5*	0.110 *6*	av Eβ=582 *9*; εK=0.347 *12*; εL=0.0396 *14*; εM+=0.00873 *27*
(2395 *21*)	6140	0.067 *6*	0.0399 *29*	5.62 *6*	0.107 *7*	av Eβ=600 *9*; εK=0.327 *11*; εL=0.0373 *13*; εM+=0.00824 *25*
(2435 *21*)	6100	0.067 *7*	0.0365 *31*	5.68 *6*	0.104 *8*	av Eβ=618 *9*; εK=0.308 *11*; εL=0.0352 *12*; εM+=0.00777 *24*
(2475 *21*)	6060	0.068 *9*	0.034 *4*	5.72 *7*	0.102 *10*	av Eβ=636 *9*; εK=0.291 *10*; εL=0.0332 *12*; εM+=0.00732 *23*
(2515 *21*)	6020	0.072 *11*	0.033 *4*	5.75 *+8−7*	0.105 *12*	av Eβ=654 *9*; εK=0.274 *10*; εL=0.0313 *11*; εM+=0.00690 *21*
(2555 *21*)	5980	0.081 *15*	0.034 *5*	5.75 *+9−8*	0.115 *16*	av Eβ=672 *9*; εK=0.259 *9*; εL=0.0295 *10*; εM+=0.00651 *20*
(2595 *21*)	5940	0.098 *21*	0.038 *6*	5.72 *+10−9*	0.136 *22*	av Eβ=690 *9*; εK=0.244 *8*; εL=0.0278 *10*; εM+=0.00615 *19*
(2635 *21*)	5900	0.121 *17*	0.043 *5*	5.68 *+8−7*	0.164 *18*	av Eβ=708 *9*; εK=0.231 *8*; εL=0.0263 *9*; εM+=0.00580 *18*
(2675 *21*)	5860	0.151 *21*	0.050 *6*	5.63 *+8−7*	0.201 *22*	av Eβ=726 *9*; εK=0.218 *7*; εL=0.0248 *9*; εM+=0.00547 *17*
(2715 *21*)	5820	0.175 *21*	0.053 *5*	5.61 *7*	0.228 *22*	av Eβ=744 *9*; εK=0.206 *7*; εL=0.0234 *8*; εM+=0.00518 *16*
(2755 *21*)	5780	0.192 *23*	0.055 *6*	5.61 *7*	0.247 *24*	av Eβ=762 *9*; εK=0.194 *7*; εL=0.0222 *8*; εM+=0.00489 *15*
(2795 *21*)	5740	0.206 *23*	0.054 *5*	5.63 *+7−6*	0.260 *24*	av Eβ=780 *9*; εK=0.184 *6*; εL=0.0209 *7*; εM+=0.00463 *14*
(2835 *21*)	5700	0.225 *29*	0.055 *6*	5.63 *7*	0.28 *3*	av Eβ=799 *9*; εK=0.174 *6*; εL=0.0198 *7*; εM+=0.00438 *13*
(2875 *21*)	5660	0.27 *4*	0.062 *8*	5.59 *8*	0.33 *4*	av Eβ=817 *9*; εK=0.165 *5*; εL=0.0188 *6*; εM+=0.00414 *12*
(2915 *21*)	5620	0.35 *5*	0.076 *9*	5.52 *+8−7*	0.43 *5*	av Eβ=835 *9*; εK=0.156 *5*; εL=0.0178 *6*; εM+=0.00392 *12*
(2955 *21*)	5580	0.50 *7*	0.101 *12*	5.41 *+8−7*	0.60 *7*	av Eβ=853 *9*; εK=0.148 *5*; εL=0.0168 *6*; εM+=0.00371 *11*
(2995 *21*)	5540	0.71 *10*	0.134 *17*	5.30 *+8−7*	0.84 *10*	av Eβ=872 *9*; εK=0.140 *5*; εL=0.0160 *5*; εM+=0.00353 *10*
(3035 *21*)	5500	0.92 *16*	0.165 *25*	5.22 *+9−8*	1.09 *16*	av Eβ=890 *9*; εK=0.133 *4*; εL=0.0152 *5*; εM+=0.00335 *10*
(3075 *21*)	5460	1.04 *22*	0.174 *32*	5.20 *+11−10*	1.21 *22*	av Eβ=908 *9*; εK=0.126 *4*; εL=0.0144 *5*; εM+=0.00318 *9*
(3115 *21*)	5420	0.98 *17*	0.155 *24*	5.27 *9*	1.13 *17*	av Eβ=927 *9*; εK=0.120 *4*; εL=0.0137 *4*; εM+=0.00302 *9*
(3155 *21*)	5380	0.83 *9*	0.124 *12*	5.38 *+7−6*	0.95 *9*	av Eβ=945 *9*; εK=0.114 *4*; εL=0.0130 *4*; εM+=0.00287 *8*
(3195 *21*)	5340	0.666 *30*	0.094 *5*	5.51 *4*	0.76 *3*	av Eβ=964 *9*; εK=0.1088 *34*; εL=0.0124 *4*; εM+=0.00273 *8*
(3235 *21*)	5300	0.56 *6*	0.076 *7*	5.61 *+7−6*	0.64 *6*	av Eβ=982 *9*; εK=0.1036 *32*; εL=0.0118 *4*; εM+=0.00260 *7*
(3275 *21*)	5260	0.50 *7*	0.063 *8*	5.70 *+8−7*	0.56 *7*	av Eβ=1001 *9*; εK=0.0987 *30*; εL=0.01123 *34*;

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^{76}Rb $\varepsilon+\beta^+$ decay (36.5 s) 2005Gi17,1985Pi08,1984Mo22 (continued)

ϵ,β^+ radiations (continued)

E(decay)	E(level)	Iβ^+ #	Iε#	Log *ft*	I($\varepsilon+\beta^+$)†#	Comments
						εM+=0.00248 *7*
(3315 *21*)	5220	0.46 *5*	0.056 *6*	5.77 *+7−6*	0.52 *5*	av Eβ=1019 *9*; εK=0.0941 *28*; εL=0.01071 *32*; εM+=0.00236 *6*
(3355 *21*)	5180	0.441 *24*	0.0502 *29*	5.82 *4*	0.491 *24*	av Eβ=1038 *9*; εK=0.0898 *27*; εL=0.01021 *30*; εM+=0.00225 *6*
(3395 *21*)	5140	0.42 *4*	0.046 *4*	5.87 *6*	0.47 *4*	av Eβ=1056 *9*; εK=0.0857 *25*; εL=0.00975 *29*; εM+=0.00215 *6*
(3435 *21*)	5100	0.41 *6*	0.042 *6*	5.92 *8*	0.45 *6*	av Eβ=1075 *9*; εK=0.0818 *24*; εL=0.00931 *27*; εM+=0.00206 *5*
(3475 *21*)	5060	0.37 *6*	0.037 *5*	5.99 *+9−8*	0.41 *6*	av Eβ=1093 *9*; εK=0.0782 *23*; εL=0.00890 *26*; εM+=0.00196 *5*
(3515 *21*)	5020	0.33 *5*	0.031 *4*	6.08 *+9−8*	0.36 *5*	av Eβ=1112 *9*; εK=0.0748 *21*; εL=0.00851 *24*; εM+=0.00187 *5*
(3555 *21*)	4980	0.29 *4*	0.0261 *33*	6.16 *+8−7*	0.32 *4*	av Eβ=1130 *9*; εK=0.0716 *20*; εL=0.00814 *23*; εM+=0.00179 *5*
(3595 *21*)	4940	0.277 *30*	0.0234 *24*	6.21 *+7−6*	0.30 *3*	av Eβ=1149 *9*; εK=0.0685 *19*; εL=0.00779 *22*; εM+=0.00172 *4*
(3635 *21*)	4900	0.269 *19*	0.0218 *15*	6.26 *5*	0.291 *19*	av Eβ=1168 *9*; εK=0.0656 *18*; εL=0.00747 *21*; εM+=0.00165 *4*
(3675 *21*)	4860	0.283 *8*	0.0219 *8*	6.264 *33*	0.305 *8*	av Eβ=1186 *9*; εK=0.0629 *17*; εL=0.00715 *20*; εM+=0.00158 *4*
(3715 *21*)	4820	0.324 *26*	0.0239 *19*	6.23 *5*	0.348 *26*	av Eβ=1205 *9*; εK=0.0603 *16*; εL=0.00686 *19*; εM+=0.00151 *4*
(3755 *21*)	4780	0.38 *6*	0.027 *4*	6.19 *+9−8*	0.41 *6*	av Eβ=1224 *9*; εK=0.0579 *16*; εL=0.00658 *18*; εM+=0.00145 *4*
(3795 *21*)	4740	0.43 *8*	0.029 *5*	6.17 *+10−9*	0.46 *8*	av Eβ=1242 *9*; εK=0.0556 *15*; εL=0.00632 *17*; εM+=0.001394 *34*
(3835 *21*)	4700	0.45 *8*	0.029 *5*	6.18 *+10−9*	0.48 *8*	av Eβ=1261 *9*; εK=0.0534 *14*; εL=0.00607 *16*; εM+=0.001339 *32*
(3875 *21*)	4660	0.42 *8*	0.026 *5*	6.23 *+11−9*	0.45 *8*	av Eβ=1280 *9*; εK=0.0513 *13*; εL=0.00583 *15*; εM+=0.001287 *31*
(3915 *21*)	4620	0.36 *6*	0.0213 *34*	6.33 *+9−8*	0.38 *6*	av Eβ=1298 *9*; εK=0.0493 *13*; εL=0.00561 *15*; εM+=0.001236 *29*
(3955 *21*)	4580	0.34 *5*	0.0194 *27*	6.38 *8*	0.36 *5*	av Eβ=1317 *9*; εK=0.0474 *12*; εL=0.00539 *14*; εM+=0.001190 *28*
(3995 *21*)	4540	0.35 *7*	0.019 *4*	6.39 *+11−10*	0.37 *7*	av Eβ=1336 *9*; εK=0.0457 *12*; εL=0.00519 *13*; εM+=0.001145 *26*
(4035 *21*)	4500	0.45 *11*	0.024 *6*	6.31 *+14−11*	0.47 *11*	av Eβ=1355 *9*; εK=0.0440 *11*; εL=0.00500 *13*; εM+=0.001103 *25*
(4075 *21*)	4460	0.64 *17*	0.032 *8*	6.19 *+15−12*	0.67 *17*	av Eβ=1373 *9*; εK=0.0423 *11*; εL=0.00481 *12*; εM+=0.001062 *24*
(4115 *21*)	4420	0.87 *21*	0.042 *10*	6.08 *+13−11*	0.91 *21*	av Eβ=1392 *9*; εK=0.0408 *10*; εL=0.00464 *11*; εM+=0.001023 *23*
(4155 *21*)	4380	1.01 *26*	0.047 *12*	6.04 *+14−11*	1.06 *26*	av Eβ=1411 *9*; εK=0.0393 *10*; εL=0.00447 *11*; εM+=9.86×10^{-4} *22*
(4195 *21*)	4340	1.0 *5*	0.043 *22*	6.08 *+32−20*	1.0 *5*	av Eβ=1430 *9*; εK=0.0379 *9*; εL=0.00431 *10*; εM+=9.51×10^{-4} *21*
(4246 *4*)	4289.42	1.94 *8*	0.0834 *34*	5.810 *27*	2.02 *8*	av Eβ=1454.0 *19*; εK=0.03627 *34*; εL=0.00412 *4*; εM+=9.10×10^{-4} *9* I($\varepsilon+\beta^+$): 2.3 (2005Gi17), 0.782 *14* for a 4300 group (2013Pe13).
(4275 *21*)	4260	0.59 *11*	0.025 *4*	6.35 *+11−9*	0.61 *11*	av Eβ=1468 *9*; εK=0.0353 *8*; εL=0.00402 *10*; εM+=8.86×10^{-4} *19*
(4315 *21*)	4220	0.509 *25*	0.0206 *11*	6.43 *4*	0.530 *25*	av Eβ=1487 *9*; εK=0.0341 *8*; εL=0.00388 *9*; εM+=8.56×10^{-4} *19*
(4355 *21*)	4180	0.52 *2*	0.0203 *9*	6.45 *+4−3*	0.54 *2*	av Eβ=1505 *9*; εK=0.0330 *8*; εL=0.00375 *9*;

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^{76}Rb ε+β$^+$ decay (36.5 s) 2005Gi17,1985Pi08,1984Mo22 (continued)

ϵ,β$^+$ radiations (continued)

E(decay)	E(level)	Iβ$^+$ [#]	Iε[#]	Log *ft*	I(ε+β$^+$)[†#]	Comments
						εM+=8.26×10^{-4} *18*
(4395 *21*)	4140	0.588 *25*	0.0221 *10*	6.42 *4*	0.610 *25*	av Eβ=1524 *9*; εK=0.0319 *7*; εL=0.00362 *8*; εM+=7.99×10^{-4} *17*
(4437 *4*)	4097.74	1.48 *13*	0.054 *5*	6.04 *+5−4*	1.53 *13*	av Eβ=1544.1 *19*; εK=0.03075 *28*; εL=0.003493 *32*; εM+=7.70×10^{-4} *8* I(ε+β$^+$): 1.8 (2005Gi17), 0.74 *2* for a 4100 group (2013Pe13).
(4475 *21*)	4060	0.80 *6*	0.0282 *21*	6.33 *5*	0.83 *6*	av Eβ=1562 *9*; εK=0.0298 *7*; εL=0.00339 *8*; εM+=7.47×10^{-4} *16*
(4508 *4*)	4026.72	1.54 *21*	0.052 *7*	6.06 *+7−6*	1.59 *21*	av Eβ=1577.7 *19*; εK=0.02899 *26*; εL=0.003293 *30*; εM+=7.27×10^{-4} *7* I(ε+β$^+$): 2.0 (2005Gi17), 0.85 *16* for a 4020 group (2013Pe13).
(4548 *4*)	3986.6	0.98 *13*	0.032 *4*	6.28 *+7−6*	1.01 *13*	av Eβ=1596.6 *19*; εK=0.02806 *25*; εL=0.003187 *29*; εM+=7.03×10^{-4} *7* I(ε+β$^+$): 1.2 (2005Gi17).
(4557 *4*)	3978.0	0.79 *19*	0.026 *6*	6.38 *+12−10*	0.82 *19*	av Eβ=1600.9 *19*; εK=0.02786 *25*; εL=0.003165 *29*; εM+=6.98×10^{-4} *7* I(ε+β$^+$): 0.5 (2005Gi17), 0.71 *14* for a 3980 group (2013Pe13).
(4595 *21*)	3940	0.47 *9*	0.0151 *28*	6.62 *+11−9*	0.49 *9*	av Eβ=1619 *9*; εK=0.0270 *6*; εL=0.00307 *7*; εM+=6.78×10^{-4} *14*
(4635 *21*)	3900	0.284 *10*	0.0087 *4*	6.868 *33*	0.293 *10*	av Eβ=1638 *9*; εK=0.0262 *6*; εL=0.00297 *7*; εM+=6.56×10^{-4} *13*
(4675 *21*)	3860	0.165 *20*	0.0049 *6*	7.13 *7*	0.17 *2*	av Eβ=1657 *9*; εK=0.0254 *6*; εL=0.00288 *6*; εM+=6.35×10^{-4} *13*
(4715 *21*)	3820	0.117 *25*	0.0034 *7*	7.30 *+12−10*	0.120 *25*	av Eβ=1676 *9*; εK=0.0246 *5*; εL=0.00279 *6*; εM+=6.16×10^{-4} *12*
(4755 *21*)	3780	0.126 *20*	0.0035 *5*	7.28 *+9−8*	0.13 *2*	av Eβ=1695 *9*; εK=0.0238 *5*; εL=0.00271 *6*; εM+=5.97×10^{-4} *12*
(4795 *21*)	3740	0.243 *25*	0.0066 *7*	7.02 *6*	0.250 *25*	av Eβ=1714 *10*; εK=0.0231 *5*; εL=0.00262 *6*; εM+=5.79×10^{-4} *12*
(4835 *21*)	3700	0.594 *20*	0.0156 *6*	6.654 *32*	0.61 *2*	av Eβ=1733 *10*; εK=0.0224 *5*; εL=0.00255 *5*; εM+=5.62×10^{-4} *11*
(4863 *4*)	3672.24	0.42 *5*	0.0108 *13*	6.82 *6*	0.43 *5*	av Eβ=1746.1 *19*; εK=0.02196 *19*; εL=0.002494 *22*; εM+=5.50×10^{-4} *6* I(ε+β$^+$): 0.5 (2005Gi17), 9.7 *11* (2013Pe13).
(4899 *4*)	3636.3	1.05 *19*	0.026 *5*	6.44 *+9−8*	1.08 *19*	av Eβ=1763.2 *19*; εK=0.02138 *19*; εL=0.002428 *22*; εM+=5.36×10^{-4} *5* I(ε+β$^+$): 1.3 (2005Gi17).
(4932 *4*)	3602.81	5.8 *6*	0.140 *14*	5.72 *+6−5*	5.9 *6*	av Eβ=1778.9 *19*; εK=0.02086 *18*; εL=0.002368 *21*; εM+=5.22×10^{-4} *5* I(ε+β$^+$): 7.0 (2005Gi17), 2.24 *38* (2013Pe13).
(5079 *4*)	3456.1	0.23 *5*	0.0049 *11*	7.20 *+12−9*	0.23 *5*	av Eβ=1848.9 *19*; εK=0.01876 *16*; εL=0.002130 *19*; εM+=4.70×10^{-4} *5* I(ε+β$^+$): 0.3 (2005Gi17), 1.20 *11* (2013Pe13).
(5113 *4*)	3421.6	0.297 *23*	0.0063 *5*	7.09 *4*	0.303 *23*	av Eβ=1865.1 *19*; εK=0.01831 *16*; εL=0.002079 *18*; εM+=4.58×10^{-4} *5* I(ε+β$^+$): 0.4 (2005Gi17), 0.17 *7* (2013Pe13).
(5259 *4*)	3275.91	0.58 *4*	0.0111 *8*	6.87 *4*	0.59 *4*	av Eβ=1934.8 *19*; εK=0.01656 *14*; εL=0.001880 *16*; εM+=4.15×10^{-4} *4* I(ε+β$^+$): 0.7 (2005Gi17), 0.46 *13* (2013Pe13).
(5293 *4*)	3242.1	1.37 *30*	0.026 *6*	6.51 *+11−9*	1.4 *3*	av Eβ=1951.0 *19*; εK=0.01618 *14*; εL=0.001837

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^{76}Rb ε+β^+ decay (36.5 s) 2005Gi17,1985Pi08,1984Mo22 (continued)

ϵ,β^+ radiations (continued)

E(decay)	E(level)	Iβ^+ [#]	Iε[#]	Log *ft*	I($\varepsilon+\beta^+$)[†#]	Comments
						16; εM+=4.06×10^{-4} *4* I($\varepsilon+\beta^+$): 1.6 (2005Gi17), 1.29 *12* (2013Pe13).
(5511 *4*)	3024.42	7.6 *5*	0.123 *8*	5.87 *4*	7.7 *5*	av Eβ=2055.2 *19*; εK=0.01403 *12*; εL=0.001592 *14*; εM+=3.51×10^{-4} *3* I($\varepsilon+\beta^+$): 6.8 (2005Gi17), 11.74 *30* (2013Pe13).
(5565 *4*)	2970.1	0.49 *4*	0.0077 *6*	7.08 *+5−4*	0.50 *4*	av Eβ=2081.1 *19*; εK=0.01355 *11*; εL=0.001538 *13*; εM+=3.392×10^{-4} *34* I($\varepsilon+\beta^+$): 0.6 (2005Gi17), 3.94 *24* (2013Pe13).
(5608 *4*)	2926.59	9 *1*	0.137 *15*	5.84 *+6−5*	9.1 *10*	av Eβ=2101.7 *19*; εK=0.01318 *11*; εL=0.001496 *13*; εM+=3.300×10^{-4} *33* I($\varepsilon+\beta^+$): 12.3 (2005Gi17), 4.0 *5* (2013Pe13).
(5718 *4*)	2816.57	3.1 *4*	0.043 *6*	6.36 *+7−6*	3.1 *4*	av Eβ=2154.4 *19*; εK=0.01231 *10*; εL=0.001397 *12*; εM+=3.083×10^{-4} *30* I($\varepsilon+\beta^+$): 2.6 (2005Gi17), 0.788 *18* (2013Pe13).
(5760 *4*)	2774.94	2.66 *30*	0.037 *4*	6.43 *+6−5*	2.7 *3*	av Eβ=2174.5 *19*; εK=0.01201 *10*; εL=0.001362 *12*; εM+=3.005×10^{-4} *29* I($\varepsilon+\beta^+$): 2.1 (2005Gi17), 0.26 *4* (2013Pe13).
(5793 *4*)	2742.27	0.087 *9*	0.0047 *5*	11.52[2u] *4*	0.092 *9*	av Eβ=2221.2 *20*; εK=0.04453 *46*; εL=0.005189 *54*; εM+=0.001066 *11* I($\varepsilon+\beta^+$): 0.10 (2005Gi17), 2.1 *5* (2013Pe13).
(5835 *4*)	2700.16	0.32 *4*	0.0042 *5*	7.39 *+7−6*	0.32 *4*	av Eβ=2210.5 *19*; εK=0.01148 *10*; εL=0.001302 *11*; εM+=2.873×10^{-4} *28* I($\varepsilon+\beta^+$): 0.5 (2005Gi17), 5.5 *6* (2013Pe13).
(5954 *4*)	2581.11	0.45 *8*	0.0056 *10*	7.28 *+9−8*	0.46 *8*	av Eβ=2267.6 *19*; εK=0.01070 *9*; εL=0.001214 *10*; εM+=2.677×10^{-4} *26* I($\varepsilon+\beta^+$): 0.5 (2005Gi17), 6.0 *9* (2013Pe13).
(5964 *4*)	2571.01	15.3 *4*	0.188 *5*	5.759 *20*	15.5 *4*	av Eβ=2272.4 *19*; εK=0.01063 *9*; εL=0.001207 *10*; εM+=2.661×10^{-4} *26* I($\varepsilon+\beta^+$): from 2013Pe13. The gamma intensity balance gives 43.4 *14*, 2005Gi17 list 34 (2005Gi17), 15.5 *4* (2013Pe13).
(6202 *4*)	2332.70	0.208 *30*	0.00222 *32*	7.72 *+8−7*	0.21 *3*	av Eβ=2386.9 *19*; εK=0.00929 *8*; εL=0.001054 *9*; εM+=2.324×10^{-4} *22* I($\varepsilon+\beta^+$): 0.2 (2005Gi17), 0.340 *25* (2013Pe13).
(6278[@] *4*)	2257.54	<1.08	<0.02	>8.9	<1.1	av Eβ=2419.7 *19*; εK=0.01935 *16*; εL=0.002205 *18*; εM+=4.87×10^{-4} *5* I($\varepsilon+\beta^+$): 0.7 (2005Gi17), 0.0150 *25* (2013Pe13). The feeding is considered as questionable since log *ft* is too low to be realistic for ΔJ=2, $\Delta\pi$=no β transition.
(6308 *4*)	2227.28	6.9 *4*	0.070 *4*	6.238 *+34−33*	7.0 *4*	av Eβ=2437.9 *19*; εK=0.00877 *7*; εL=9.94×10^{-4} *8*; εM+=2.194×10^{-4} *21* I($\varepsilon+\beta^+$): 6.9 (2005Gi17), 0.013 *2* (2013Pe13).
(6343 *4*)	2192.50	0.228 *30*	0.00225 *29*	7.73 *+7−6*	0.23 *3*	av Eβ=2454.8 *19*; εK=0.00860 *7*; εL=9.76×10^{-4} *8*; εM+=2.153×10^{-4} *21* I($\varepsilon+\beta^+$): 0.3 (2005Gi17), 0.12 *20* (2013Pe13).
(6395 *4*)	2140.16	0.49 *18*	0.0047 *17*	7.43 *+21−14*	0.49 *18*	av Eβ=2479.8 *19*; εK=0.00836 *7*; εL=9.49×10^{-4} *8*; εM+=2.092×10^{-4} *20* I($\varepsilon+\beta^+$): 0.6 (2005Gi17), 0.000672 *20* (2013Pe13).
(6431 *4*)	2104.33	5.6 *5*	0.053 *5*	6.37 *5*	5.7 *5*	av Eβ=2497.2 *19*; εK=0.00821 *7*;

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^{76}Rb $\varepsilon+\beta^+$ decay (36.5 s) 2005Gi17,1985Pi08,1984Mo22 (continued)

ϵ,β^+ radiations (continued)

E(decay)	E(level)	Iβ^+ [#]	Iε [#]	Log *ft*	I($\varepsilon+\beta^+$) [†#]	Comments
						εL=9.31×10^{-4} *8*; εM+=2.053×10^{-4} *20* I($\varepsilon+\beta^+$): 5.5 (2005Gi17), 0.0098 *3* (2013Pe13).
(6444 *4*)	2091.49	0.49 *12*	0.0045 *11*	7.44 *+13−10*	0.49 *12*	av Eβ=2503.4 *19*; εK=0.00815 *7*; εL=9.25×10^{-4} *8*; εM+=2.040×10^{-4} *19* I($\varepsilon+\beta^+$): 0.8 (2005Gi17), 0.000743 *14* (2013Pe13).
(6802 *4*)	1733.26	0.82 *19*	0.0137 *31*	9.26[1u] *+12−10*	0.83[‡] *19*	av Eβ=2668.9 *19*; εK=0.01452 *12*; εL=0.001653 *13*; εM+=3.65×10^{-4} *3* I($\varepsilon+\beta^+$): 0.6 (2005Gi17).
(6848 *4*)	1687.32	1.5 *6*	0.011 *5*	7.10 *+23−15*	1.5[‡] *6*	av Eβ=2698.4 *19*; εK=0.00663 *5*; εL=7.52×10^{-4} *6*; εM+=1.659×10^{-4} *16* I($\varepsilon+\beta^+$): 1.7 (2005Gi17).
(6937 *4*)	1598.07	0.35 *22*	0.0025 *16*	7.8 *+4−2*	0.35[‡] *22*	av Eβ=2741.4 *19*; εK=0.00635 *5*; εL=7.20×10^{-4} *6*; εM+=1.588×10^{-4} *15* I($\varepsilon+\beta^+$): 0.09 (2005Gi17).
(7313 *4*)	1221.72	1.4 *5*	0.0085 *30*	7.29 *+20−14*	1.4[‡] *5*	av Eβ=2923.3 *19*; εK=0.00532 *4*; εL=6.03×10^{-4} *5*; εM+=1.330×10^{-4} *12* I($\varepsilon+\beta^+$): 1.5 (2005Gi17).
(7500[@] *4*)	1034.75	<0.98	<0.02	>11.6	<1[‡]	av Eβ=3008.8 *19*; εK=0.01758 *14*; εL=0.002007 *16*; εM+=4.43×10^{-4} *4* I($\varepsilon+\beta^+$): 0.5 (2005Gi17). The feeding is considered as questionable since log *ft* is too low to be realistic for ΔJ=3, Δπ=yes β transition.
(7765[@] *4*)	769.94	<0.49752	<0.002483	>7.9	<0.5[‡]	av Eβ=3142.5 *19*; εK=0.004363 *33*; εL=4.95×10^{-4} *4*; εM+=1.091×10^{-4} *10* I($\varepsilon+\beta^+$): 0.7 (2005Gi17).
(8111[@] *4*)	424.05				[‡]	I($\varepsilon+\beta^+$): 2005Gi17 give 0.8, evaluators obtain −4 *2*.

[†] Feedings for levels up to 3672.1 keV, and at 40-keV interval above this energy are deduced by 2013Pe13 using an iterative Expectation- Maximization (EM) method. Feedings below 0.0001% are set to zero. Total $\varepsilon+\beta^+$ feeding in Table IV of 2013Pe13 adds to 95.9% *21*. Large range of uncertainties reported from (a) deformation assumptions for unknown level scheme calculations; (b) strength function parameterization; (c) assumptions of position of last (cutoff) level; (d) uncertainties in subtracting contaminants; and (e) statistical uncertainty in feeding distribution. Uncertainties listed here are deduced by evaluators as averages between upper and lower uncertainties quoted by 2013Pe13. Total feedings deduced by evaluators here for discreet energy levels are from γ intensity balances, the values given by 2005Gi17 are somewhat different and are listed under comments. Corresponding values from TAS spectral analysis in 2013Pe13 are not in agreement in many cases.

[‡] TAS data in 2013Pe13 are consistent with zero $\beta^+ + \varepsilon$ feeding.

[#] Absolute intensity per 100 decays.

[@] Existence of this branch is questionable.

$\gamma(^{76}Kr)$

Iγ normalization: Summed transition intensity to g.s.=100, assuming no direct $\beta+,\varepsilon$ feeding to g.s. This assumption is supported by systematics of log *ft* values in A=76 nuclides: log *ft*>6 for 0^+ to 1^- β transition in ^{76}Kr to ^{76}Br decay and >8.9 for 1^- to 0^+ β transition in ^{76}Br to ^{76}Se nuclei.

The following γ rays with energy (intensity) reported only by 1975We23 are discarded since these are not confirmed in any of the later studies: 64 (2.3), 244 (2.3), 254 (2.0), 869 (2.2), 937 (2.5). Also an unplaced 1120.8 *3* γ with Iγ=0.7 *2* in 1984Mo22 is omitted here since it is not reported by 2005Gi17.

Experimental conversion coefficients given under comments are from 2005Gi17.

E_γ	I_γ[a]	E_i(level)	J^π_i	E_f	J^π_f	Mult.[@]	δ[@]	α[†]	Comments
324.3[‡] *1*	0.77[‡] *4*	3024.42	(2)$^-$	2700.16	2$^+$	[E1]		0.00299 *4*	α(K)=0.00265 *4*; α(L)=0.000283 *4*; α(M)=4.56×10^{-5} *6* α(N)=4.57×10^{-6} *6* %Iγ=0.337 *21* Iγ(324.3γ)/Iγ(453.5γ)=14.5 *8*/100 *4*.
345.9[#] *1*	13.2[#] *4*	769.94	0$^+$	424.05	2$^+$	E2		0.01045 *15*	α(K)exp=0.0093 *3* α(K)=0.00922 *13*; α(L)=0.001049 *15*; α(M)=0.0001696 *24* α(N)=1.666×10^{-5} *23* %Iγ=5.78 *25*
355.6[#] *1*	17.4[#] *20*	2926.59	0$^-$,1$^-$,2$^-$	2571.01	1$^-$	M1(+E2)[&]	<0.12[&]	0.00484 *8*	α(K)exp=0.00422 *15* α(K)=0.00429 *7*; α(L)=0.000464 *7*; α(M)=7.52×10^{-5} *12* α(N)=7.58×10^{-6} *12* %Iγ=7.6 *9*
376.4[#] *1*	0.5[#] *1*	1598.07	(0)$^+$	1221.72	2$^+$	E2		0.00788 *11*	α(K)exp=0.0050 *14* α(K)=0.00696 *10*; α(L)=0.000786 *11*; α(M)=0.0001271 *18* α(N)=1.252×10^{-5} *18* %Iγ=0.22 *5* Iγ(376.4γ)/Iγ(1174.0γ)=8.1 *4*/100 *3* (2005Gi17).
378.5[‡] *1*	0.54[‡] *2*	2571.01	1$^-$	2192.50		M1+E2[&]	0.9[&] *+8−5*	0.0057 *11*	α(K)exp=0.005 *1* α(K)=0.0051 *10*; α(L)=0.00056 *12*; α(M)=9.1×10^{-5} *19* α(N)=9.1×10^{-6} *18* %Iγ=0.237 *12* Iγ(378.5γ)/Iγ(2571.1γ)=0.70 *3*/100 *4*.
403.9[#] *3*	0.3[#] *1*	2091.49	(2)$^+$	1687.32	2$^+$				%Iγ=0.13 *5* Iγ(403.9γ)/Iγ(1321.6γ)=20.7 *11*/100 *3*.
417.1[‡] *1*	0.22[‡] *2*	2104.33	1$^-$	1687.32	2$^+$	[E1]		1.53×10^{-3} *2*	α(K)=0.001362 *19*; α(L)=0.0001447 *20*; α(M)=2.338×10^{-5} *33*

From ENSDF

γ(^{76}Kr) (continued)

E_γ	I_γ[a]	E_i(level)	J^π_i	E_f	J^π_f	Mult.[@]	δ[@]	α[†]	Comments
									α(N)=2.349×10^{-6} *33* %Iγ=0.096 *9* Iγ(417.1γ)/Iγ(1680.3γ)=2.0 *2*/100 *3*.
424.0[#] *1*	100[#] *4*	424.05	2$^+$	0.0	0$^+$	E2[&]		0.00535 *8*	α(K)=0.00473 *7*; α(L)=0.000529 *7*; α(M)=8.55×10^{-5} *12* α(N)=8.46×10^{-6} *12* %Iγ=43.8 *13*
431.7[‡] *5*	0.52[‡] *11*	3456.1	(0$^-$,1,2)	3024.42	(2)$^-$				%Iγ=0.23 *5* Eγ=431.3 *2*, Iγ=0.6 *2*; unplaced (1984Mo22).
432.0[‡] *9*	0.13[‡] *8*	3672.24	(0,1,2)	3242.1	(1,2$^+$)				%Iγ=0.06 *4* E$_\gamma$: level-energy difference=430.1. Iγ(432.0γ)/Iγ(1567.8γ)=19 *10*/100 *6*.
443.3[‡] *1*	0.27[‡] *3*	3024.42	(2)$^-$	2581.11	(2$^+$)	[E1]		1.31×10^{-3} *2*	α(K)=0.001166 *16*; α(L)=0.0001238 *17*; α(M)=2.000×10^{-5} *28* α(N)=2.010×10^{-6} *28* %Iγ=0.118 *14* Iγ(443.3γ)/Iγ(453.5γ)=5.0 *5*/100 *4*.
453.5[#] *2*	5.8[#] *3*	3024.42	(2)$^-$	2571.01	1$^-$	M1(+E2)	0.3 *3*	0.00282 *30*	α(K)exp=0.0025 *3* α(K)=0.00251 *26*; α(L)=0.000270 *31*; α(M)=4.4×10^{-5} *5* α(N)=4.4×10^{-6} *5* %Iγ=2.54 *15*
466.0[#] *3*	0.5[#] *2*	1687.32	2$^+$	1221.72	2$^+$				%Iγ=0.22 *9* Iγ(466.0γ)/Iγ(917.4γ)=4.6 *16*/100 *6*.
466.9[‡] *13*	0.24[‡] *10*	2571.01	1$^-$	2104.33	1$^-$				%Iγ=0.11 *5* Iγ(466.9γ)/Iγ(2571.1γ)=0.3 *1*/100 *4*.
479.5[#] *1*	1.8[#] *1*	2571.01	1$^-$	2091.49	(2)$^+$	E1(+M2)	<0.17	0.00117 *10*	α(K)exp=0.00091 *20* α(K)=0.00104 *9*; α(L)=0.000111 *10*; α(M)=1.80×10^{-5} *16* α(N)=1.81×10^{-6} *16* %Iγ=0.79 *5* Iγ(479.5γ)/Iγ(2571.1γ)=2.25 *8*/100 *4*.
493.4[‡] *1*	0.21[‡] *7*	2091.49	(2)$^+$	1598.07	(0)$^+$				%Iγ=0.092 *31* Iγ(493.4γ)/Iγ(1321.6γ)=14 *5*/100 *3*.
493.8[‡] *7*	0.7[‡] *2*	2227.28	2$^-$	1733.26	3$^+$	[E1]		1.00×10^{-3} *1*	α(K)=0.000890 *13*; α(L)=9.44×10^{-5} *14*; α(M)=1.526×10^{-5} *22* α(N)=1.535×10^{-6} *22* %Iγ=0.31 *9* Iγ(493.8γ)/Iγ(1803.2γ)=6.4 *18*/100 *3*.

From ENSDF

$\gamma(^{76}Kr)$ (continued)

E_γ	I_γ[a]	E_i(level)	J_i^π	E_f	J_f^π	Mult.[@]	α[†]	$I_{(\gamma+ce)}$[a]	Comments
506.0[‡] 9	0.8[‡] 3	2104.33	1$^-$	1598.07	(0)$^+$	[E1]	0.000944 14		α(K)=0.000839 12; α(L)=8.89×10^{-5} 13; α(M)=1.437×10^{-5} 21 α(N)=1.446×10^{-6} 21 %Iγ=0.35 13 Iγ(506.0γ)/Iγ(1680.3γ)=7 3/100 3.
511.6[‡] 2	0.5[‡] 3	1733.26	3$^+$	1221.72	2$^+$				%Iγ=0.22 13 Iγ(511.6γ)/Iγ(1309.3γ)=20 12/100 4.
540.0[‡] 1	0.24[‡] 2	2227.28	2$^-$	1687.32	2$^+$	[E1]	0.000806 11		α(K)=0.000717 10; α(L)=7.59×10^{-5} 11; α(M)=1.227×10^{-5} 17 α(N)=1.235×10^{-6} 17 %Iγ=0.105 10 Iγ(540.0γ)/Iγ(1803.2γ)=2.2 2/100 3.
610.6[#] 1	4.0[#] 2	1034.75	4$^+$	424.05	2$^+$	E2	1.77×10^{-3} 3		α(K)=0.001570 22; α(L)=0.0001716 24; α(M)=2.78×10^{-5} 4 α(N)=2.77×10^{-6} 4 %Iγ=1.75 10
652.6[#] 1	0.5[#] 1	1687.32	2$^+$	1034.75	4$^+$	[E2]	1.47×10^{-3} 2		α(K)=0.001303 18; α(L)=0.0001419 20; α(M)=2.296×10^{-5} 32 α(N)=2.297×10^{-6} 32 %Iγ=0.22 5 Iγ(652.6γ)/Iγ(917.4γ)=9.2 3/100 6.
686.5[‡] 4	0.39[‡] 3	4289.42	(0,1,2)$^-$	3602.81	1$^-$	M1,E2[&]	0.00116 12		α(K)exp=0.0010 3 α(K)=0.00103 10; α(L)=0.000111 12; α(M)=1.80×10^{-5} 20 α(N)=1.81×10^{-6} 19 %Iγ=0.171 14 Iγ(686.5γ)/Iγ(1718.6γ)=14.4 11/100 4.
698.4[‡] 1	0.21[‡] 2	1733.26	3$^+$	1034.75	4$^+$	M1,E2[&]	0.00111 11		α(K)exp=0.0014 6 α(K)=0.00099 10; α(L)=0.000106 11; α(M)=1.72×10^{-5} 18 α(N)=1.73×10^{-6} 18 %Iγ=0.092 9 Iγ(698.4γ)/Iγ(1309.3γ)=8.7 8/100 4.
766.7[#] 1	3.1[#] 2	3024.42	(2)$^-$	2257.54	3$^-$	M1,E2[&]	0.00089 7		α(K)exp=0.00089 17 α(K)=0.00079 6; α(L)=8.4×10^{-5} 7; α(M)=1.36×10^{-5} 12 α(N)=1.37×10^{-6} 11 %Iγ=1.36 10 Iγ(766.7γ)/Iγ(453.5γ)=56.6 17/100 4.
770		769.94	0$^+$	0.0	0$^+$	(E0)		0.035	ρ^2(E0,0$^+$ to 0$^+$)=0.079 11; X(E0/E2)=0.020 1 (2005Gi17). $I_{(\gamma+ce)}$: Ice(K)=0.029 relative to Iγ(424γ)=100

$^{76}_{36}Kr_{40}$-11

γ(^{76}Kr) (continued)

E_γ	I_γ[a]	E_i(level)	J^π_i	E_f	J^π_f	Mult.[@]	δ[@]	α[†]	$I_{(\gamma+ce)}$[a]	Comments
										(2005Gi17). Evaluators have added 20% to this value to account for intensity from L, M and higher shells.
797.6[#] *1*	9.9[#] *3*	1221.72	2^+	424.05	2^+	M1+E2	+0.2 *1*	0.000755 *12*		%Iγ=4.34 *19* α(K)exp=0.00073 *5* α(K)=0.000671 *10*; α(L)=7.12×10^{-5} *11*; α(M)=1.153×10^{-5} *18* α(N)=1.168×10^{-6} *18* Mult.: M1, E2 from ce data; ΔJ=1, D+Q in (^{12}C,2nγ).
822.2[#] *2*	3.2[#] *3*	2926.59	$0^-,1^-,2^-$	2104.33	1^-	M1[&]		0.000703 *10*		α(K)exp=0.00058 *6* α(K)=0.000625 *9*; α(L)=6.63×10^{-5} *9*; α(M)=1.073×10^{-5} *15* α(N)=1.086×10^{-6} *15* %Iγ=1.40 *14* Iγ(822.2γ)/Iγ(355.6γ)=14 *4*/100 *3*.
828		1598.07	$(0)^+$	769.94	0^+	(E0)			0.00024	E_γ: possible 813.9 *3* K-conversion line in electron spectrum which may be E0 transition to 770, 0^+ level. ρ^2(E0,0^+ to 0^+)>0.007; X(E0/E2)=0.15 *3* for 376γ, 0.009 *3* for 1174γ (2005Gi17). $I_{(\gamma+ce)}$: Ice(K)=0.0002 relative to Iγ(424γ)=100 (2005Gi17). Evaluators have added 20% to this value to account for intensity from L, M and higher shells.
870[b]		2091.49	$(2)^+$	1221.72	2^+	M1,E2[&]		0.00066 *4*		α(K)exp=0.0009 *2* α(K)=0.000584 *32*; α(L)=6.2×10^{-5} *4*; α(M)=1.01×10^{-5} *6* α(N)=1.02×10^{-6} *6* E_γ: from 2005Gi17 only, listed only in authors′ table III, intensity or branching ratio is not available. Transition also not shown in authors′ level scheme figure. The evaluators treat this transition as uncertain.
882.4[‡] *2*	2.4[‡] *5*	2104.33	1^-	1221.72	2^+	[E1]		0.000273 *4*		α(K)=0.0002430 *34*; α(L)=2.56×10^{-5} *4*; α(M)=4.13×10^{-6} *6* α(N)=4.17×10^{-7} *6* %Iγ=1.05 *22* E_γ: 882.4 *5* with no Iγ value in 1985Pi08. Iγ(882.4γ)/Iγ(1680.3γ)=22 *5*/100 *3*.
883.6[#] *1*	10.3[#] *6*	2571.01	1^-	1687.32	2^+	E1[&]		0.000272 *4*		α(K)exp=0.000213 *18* α(K)=0.0002423 *34*; α(L)=2.55×10^{-5} *4*; α(M)=4.12×10^{-6} *6* α(N)=4.16×10^{-7} *6*

γ(^{76}Kr) (continued)

E_γ	I_γ[a]	E_i(level)	J^π_i	E_f	J^π_f	Mult.[@]	α[†]	Comments
								%Iγ=4.51 *30* Iγ(883.6γ)/Iγ(2571.1γ)=12.5 *4*/100 *4*.
917.4[#] *1*	8.2[#] *10*	1687.32	2$^+$	769.94	0$^+$	[E2]	0.000608 *9*	α(K)=0.000540 *8*; α(L)=5.79×10^{-5} *8*; α(M)=9.37×10^{-6} *13* α(N)=9.42×10^{-7} *13* %Iγ=3.6 *5*
918.5[‡] *7*	1.2[‡] *4*	2140.16	(1,2$^+$)	1221.72	2$^+$			%Iγ=0.53 *18*
920.2[‡] *1*	0.89[‡] *4*	3024.42	(2)$^-$	2104.33	1$^-$	M1,E2[&]	0.000578 *27*	α(K)exp=0.00048 *8* α(K)=0.000513 *24*; α(L)=5.47×10^{-5} *28*; α(M)=8.9×10^{-6} *5* α(N)=8.9×10^{-7} *4* %Iγ=0.390 *21* Iγ(920.2γ)/Iγ(453.5γ)=16.8 *8*/100 *4*.
973.0[#] *1*	4.8[#] *3*	2571.01	1$^-$	1598.07	(0)$^+$	E1[&]	0.0002251 *32*	α(K)exp=0.00021 *3* α(K)=0.0002004 *28*; α(L)=2.105×10^{-5} *29*; α(M)=3.40×10^{-6} *5* α(N)=3.44×10^{-7} *5* %Iγ=2.10 *15* Iγ(973.0γ)/Iγ(2571.1γ)=6.1 *2*/100 *4*.
1005.5[#] *1*	2.4[#] *2*	2227.28	2$^-$	1221.72	2$^+$	[E1]	0.0002113 *30*	α(K)=0.0001881 *26*; α(L)=1.975×10^{-5} *28*; α(M)=3.19×10^{-6} *4* α(N)=3.23×10^{-7} *5* %Iγ=1.05 *10* Iγ(1005.5γ)/Iγ(1803.2γ)=19.1 *6*/100 *3*.
1009.0[‡] *2*	0.21[‡] *2*	2742.27	(4$^-$)	1733.26	3$^+$			%Iγ=0.092 *9*
1035.5[#] *1*	0.5[#] *1*	2257.54	3$^-$	1221.72	2$^+$	[E1]	0.0001998 *28*	α(K)=0.0001778 *25*; α(L)=1.867×10^{-5} *26*; α(M)=3.02×10^{-6} *4* α(N)=3.05×10^{-7} *4* %Iγ=0.22 *5* E_γ: level-energy difference=1035.8. Iγ(1035.5γ)/Iγ(1833.6γ)=11.8 *9*/100 *3*.
1174.0[#] *1*	6.1[#] *2*	1598.07	(0)$^+$	424.05	2$^+$	E2[&]	0.000350 *5*	α(K)exp=0.000311 *19* α(K)=0.000306 *4*; α(L)=3.25×10^{-5} *5*; α(M)=5.26×10^{-6} *7* α(N)=5.31×10^{-7} *7*; α(IPF)=5.02×10^{-6} *7* %Iγ=2.67 *12*
1221.6[#] *1*	7.6[#] *5*	1221.72	2$^+$	0.0	0$^+$			%Iγ=3.33 *23* Iγ(1221.6γ)/Iγ(797.6γ)=69 *4*/100 *3* (2005Gi17).
1222.6[‡] *6*	0.9[‡] *5*	2257.54	3$^-$	1034.75	4$^+$	[E1]	0.0002066 *29*	α(K)=0.0001311 *18*; α(L)=1.373×10^{-5} *19*; α(M)=2.220×10^{-6} *31* α(N)=2.246×10^{-7} *32*; α(IPF)=5.94×10^{-5} *9* %Iγ=0.39 *22* Iγ(1222.6γ)/Iγ(1833.6γ)=26 *15*/100 *3*.
1263.2[#] *2*	2.1[#] *1*	1687.32	2$^+$	424.05	2$^+$	M1,E2[&]	0.000308 *7*	α(K)exp=0.00028 *3* α(K)=0.000258 *5*; α(L)=2.73×10^{-5} *6*; α(M)=4.42×10^{-6} *9*

$^{76}_{36}$Kr$_{40}$-13

γ(^{76}Kr) (continued)

E_γ	I_γ[a]	E_i(level)	J_i^π	E_f	J_f^π	Mult.[@]	δ[@]	α[†]	$I_{(\gamma+ce)}$[a]	Comments
										α(N)=4.47×10^{-7} *9*; α(IPF)=1.73×10^{-5} *23* %Iγ=0.92 *5* Iγ(1263.2γ)/Iγ(917.4γ)=21.2 *7*/100 *6*.
1270.1[‡] *2*	0.37[‡] *3*	3602.81	1$^-$	2332.70	(1$^-$)	M1,E2[&]		0.000306 *7*		α(K)exp=0.00026 *9* α(K)=0.000255 *5*; α(L)=2.70×10^{-5} *6*; α(M)=4.37×10^{-6} *9* α(N)=4.42×10^{-7} *8*; α(IPF)=1.86×10^{-5} *25* %Iγ=0.162 *14* Iγ(1270.1γ)/Iγ(3178.3γ)=4.0 *3*/100 *12*.
1291.3[‡] *3*	0.45[‡] *7*	3024.42	(2)$^-$	1733.26	3$^+$	[E1]		0.0002397 *34*		α(K)=0.0001190 *17*; α(L)=1.246×10^{-5} *17*; α(M)=2.014×10^{-6} *28* α(N)=2.039×10^{-7} *29*; α(IPF)=0.0001060 *15* %Iγ=0.197 *31* Iγ(1291.3γ)/Iγ(453.5γ)=8.5 *13*/100 *4*.
1309.3[#] *1*	2.9[#] *2*	1733.26	3$^+$	424.05	2$^+$	M1+E2[&]	+0.38 *4*	0.000296 *7*		α(K)exp=0.00022 *4* α(K)=0.000240 *4*; α(L)=2.53×10^{-5} *5*; α(M)=4.10×10^{-6} *8* α(N)=4.15×10^{-7} *7*; α(IPF)=2.64×10^{-5} *34* %Iγ=1.27 *10*
1321.6[#] *3*	1.6[#] *1*	2091.49	(2)$^+$	769.94	0$^+$	(E2)		0.000300 *4*		α(K)exp=0.00024 *5* α(K)=0.0002376 *33*; α(L)=2.515×10^{-5} *35*; α(M)=4.07×10^{-6} *6* α(N)=4.11×10^{-7} *6*; α(IPF)=3.27×10^{-5} *5* %Iγ=0.70 *5* Mult.: α(K)exp from 2005Gi17 gives M1,E2; ΔJ^π requires E2.
1334.4[#] *3*	0.8[#] *3*	2104.33	1$^-$	769.94	0$^+$	[E1]		0.000261 *4*		α(K)=0.0001124 *16*; α(L)=1.177×10^{-5} *16*; α(M)=1.902×10^{-6} *27* α(N)=1.926×10^{-7} *27*; α(IPF)=0.0001343 *19* %Iγ=0.35 *13* Iγ(1334.4γ)/Iγ(1680.3γ)=7.0 *3*/100 *3*.
1349.3[#] *1*	2.0[#] *1*	2571.01	1$^-$	1221.72	2$^+$	[E1]		0.000268 *4*		α(K)=0.0001103 *15*; α(L)=1.154×10^{-5} *16*; α(M)=1.866×10^{-6} *26* α(N)=1.889×10^{-7} *26*; α(IPF)=0.0001437 *20* %Iγ=0.88 *5* Iγ(1349.3γ)/Iγ(2571.1γ)=2.22 *7*/100 *4*.
1359.4[‡] *1*	0.90[‡] *4*	2581.11	(2$^+$)	1221.72	2$^+$					%Iγ=0.394 *22*
1463.0[‡] *2*	0.39[‡] *8*	3602.81	1$^-$	2140.16	(1,2$^+$)					%Iγ=0.17 *4* Iγ(1463.0γ)/Iγ(3178.3γ)=4.2 *9*/100 *12*.

From ENSDF

$^{76}_{36}$Kr$_{40}$-14

γ(^{76}Kr) (continued)

Eγ	Iγ[a]	Ei(level)	J^π_i	Ef	J^π_f	Mult.[@]	δ[@]	α[†]	Comments
1498.4[‡] *3*	0.32[‡] *4*	3602.81	1⁻	2104.33	1⁻				%Iγ=0.140 *18* Iγ(1498.4γ)/Iγ(3178.3γ)=3.4 *4*/100 *12*.
1542.6[‡] *2*	0.35[‡] *4*	3275.91	(1⁺,2)	1733.26	3⁺				%Iγ=0.153 *18* Iγ(1542.6γ)/Iγ(2054.3γ)=35 *4*/100 *5*.
1546.1[‡] *3*	0.42[‡] *17*	2581.11	(2⁺)	1034.75	4⁺				%Iγ=0.18 *8* Iγ(1546.1γ)/Iγ(1359.4γ)=47 *19*/100 *4*.
1553.2[#] *1*	1.7[#] *1*	2774.94	0⁺,1,2	1221.72	2⁺				%Iγ=0.74 *5* Iγ(1553.2γ)/Iγ(2350.9γ)=56 *3*/100 *4*.
1567.8[‡] *2*	0.84[‡] *5*	3672.24	(0,1,2)	2104.33	1⁻				%Iγ=0.368 *25*
1665.6[‡] *5*	0.30[‡] *5*	2700.16	2⁺	1034.75	4⁺	[E2]		0.000321 *5*	α(K)=0.0001491 *21*; α(L)=1.570×10⁻⁵ *22*; α(M)=2.54×10⁻⁶ *4* α(N)=2.57×10⁻⁷ *4*; α(IPF)=0.0001539 *22* %Iγ=0.131 *22* Iγ(1665.6γ)/Iγ(2276.6γ)=25 *4*/100 *5*.
1667.6[#] *3*	0.8[#] *2*	2091.49	(2)⁺	424.05	2⁺				%Iγ=0.35 *9* Iγ(1667.6γ)/Iγ(1321.6γ)=78.7 *6*/100 *3*.
1680.3[#] *2*	12.8[#] *6*	2104.33	1⁻	424.05	2⁺	E1[&]		0.000478 *7*	α(K)exp=0.000056 *13* α(K)=7.68×10⁻⁵ *11*; α(L)=8.01×10⁻⁶ *11*; α(M)=1.295×10⁻⁶ *18* α(N)=1.312×10⁻⁷ *18*; α(IPF)=0.000391 *5* %Iγ=5.61 *32*
1687.1[#] *2*	3.2[#] *2*	1687.32	2⁺	0.0	0⁺	[E2]		0.000327 *5*	α(K)=0.0001454 *20*; α(L)=1.531×10⁻⁵ *21*; α(M)=2.476×10⁻⁶ *35* α(N)=2.506×10⁻⁷ *35*; α(IPF)=0.0001633 *23* %Iγ=1.40 *10* Iγ(1687.1γ)/Iγ(917.4γ)=28.8 *10*/100 *6*.
1718.6[‡] *4*	2.7[‡] *1*	4289.42	(0,1,2)⁻	2571.01	1⁻	M1,E2[&]		0.000319 *16*	%Iγ=1.18 *6* α(K)exp=0.00016 *6* α(K)=0.0001401 *20*; α(L)=1.472×10⁻⁵ *21*; α(M)=2.381×10⁻⁶ *34* α(N)=2.413×10⁻⁷ *34*; α(IPF)=0.000162 *15* Eγ=1718.3 *3*, Iγ=3.1 *6*; unplaced (1984Mo22).
1768.4[‡] *2*	1.07[‡] *6*	2192.50		424.05	2⁺				%Iγ=0.469 *30*
1803.2[#] *1*	12.7[#] *8*	2227.28	2⁻	424.05	2⁺	E1(+M2)	0.33 *+18−33*	0.000540 *23*	α(K)exp=0.000088 *18* α(K)=8.6×10⁻⁵ *19*; α(L)=9.0×10⁻⁶ *20*; α(M)=1.45×10⁻⁶ *32* α(N)=1.47×10⁻⁷ *33*; α(IPF)=0.00044 *4* %Iγ=5.6 *4*

$^{76}_{36}$Kr$_{40}$-15

^{76}Rb $\varepsilon+\beta^+$ decay (36.5 s) 2005Gi17,1985Pi08,1984Mo22 (continued)

$\gamma(^{76}$Kr) (continued)

E_γ	I_γ[a]	E_i(level)	J^π_i	E_f	J^π_f	Mult.[@]	δ[@]	α[†]	Comments
1833.6[#] *1*	3.5[#] *3*	2257.54	3^-	424.05	2^+	E1(+M2)	0.12 *+28−12*	0.000577 *29*	α(K)exp=0.000071 *21* α(K)=6.9×10^{-5} *21*; α(L)=7.2×10^{-6} *22*; α(M)=1.17×10^{-6} *35* α(N)=1.2×10^{-7} *4*; α(IPF)=0.00050 *5* %Iγ=1.53 *14*
1908.5[‡] *2*	0.65[‡] *3*	2332.70	(1^-)	424.05	2^+				%Iγ=0.285 *16*
2046.5[‡] *2*	0.81[‡] *6*	2816.57	$(1,2^+)$	769.94	0^+				%Iγ=0.355 *29* Iγ(2046.5γ)/Iγ(2392.8γ)=30 *2*/100 *3*.
2054.3[‡] *5*	1.00[‡] *5*	3275.91	$(1^+,2)$	1221.72	2^+				%Iγ=0.438 *26*
2104.3[#] *5*	2.9[#] *3*	2104.33	1^-	0.0	0^+	[E1]		0.000761 *11*	α(K)=5.43×10^{-5} *8*; α(L)=5.66×10^{-6} *8*; α(M)=9.14×10^{-7} *13* α(N)=9.27×10^{-8} *13*; α(IPF)=0.000700 *10* %Iγ=1.27 *14* Iγ(2104.3γ)/Iγ(1680.3γ)=16.0 *5*/100 *3*.
2140.5[‡] *2*	0.31[‡] *3*	2140.16	$(1,2^+)$	0.0	0^+				%Iγ=0.136 *14* Iγ(2140.5γ)/Iγ(918.5γ)=26 *3*/100 *33*.
2147.2[#] *3*	1.0[#] *1*	2571.01	1^-	424.05	2^+	[E1]		0.000788 *11*	α(K)=5.27×10^{-5} *7*; α(L)=5.49×10^{-6} *8*; α(M)=8.87×10^{-7} *12* α(N)=8.99×10^{-8} *13*; α(IPF)=0.000729 *10* %Iγ=0.44 *5* Iγ(2147.2γ)/Iγ(2571.1γ)=1.39 *7*/100 *4*.
2185.0[‡] *3*	1.5[‡] *1*	4289.42	$(0,1,2)^-$	2104.33	1^-				%Iγ=0.66 *5* Iγ(2185.0γ)/Iγ(1718.6γ)=55 *3*/100 *4*.
2276.6[‡] *4*	1.20[‡] *6*	2700.16	2^+	424.05	2^+				%Iγ=0.526 *31*
2333.2[‡] *4*	0.20[‡] *5*	2332.70	(1^-)	0.0	0^+				%Iγ=0.088 *22* Iγ(2333.2γ)/Iγ(1908.5γ)=31 *8*/100 *5*.
2350.9[#] *4*	4.4[#] *6*	2774.94	$0^+,1,2$	424.05	2^+				%Iγ=1.93 *27*
2392.8[#] *4*	4.8[#] *6*	2816.57	$(1,2^+)$	424.05	2^+				%Iγ=2.10 *27*
2546.0[‡] *3*	1.13[‡] *7*	2970.1	$(0^+,1,2)$	424.05	2^+				%Iγ=0.495 *34*
2571.1[#] *2*	104[#] *4*	2571.01	1^-	0.0	0^+	[E1]		1.04×10^{-3} *2*	α(K)=4.07×10^{-5} *6*; α(L)=4.23×10^{-6} *6*; α(M)=6.83×10^{-7} *10* α(N)=6.93×10^{-8} *10*; α(IPF)=0.000999 *14* %Iγ=45.5 *13*
2600.2[#] *4*	6.8[#] *8*	3024.42	$(2)^-$	424.05	2^+	[E1]		1.06×10^{-3} *2*	α(K)=4.00×10^{-5} *6*; α(L)=4.16×10^{-6} *6*; α(M)=6.72×10^{-7} *9* α(N)=6.82×10^{-8} *10*; α(IPF)=0.001016 *14* %Iγ=3.0 *4* Iγ(2600.2γ)/Iγ(453.5γ)=61 *2*/100 *4*.

$^{76}_{36}Kr_{40}$-16

γ(^{76}Kr) (continued)

E_γ	I_γ [a]	E_i(level)	J^π_i	E_f	J^π_f	Mult. [@]	α [†]	Comments
2805.5[‡] *3*	0.60[‡] *5*	4026.72	1,2$^{(+)}$	1221.72	2$^+$			%Iγ=0.263 *24* Iγ(2805.5γ)/Iγ(3602.2γ)=32 *3*/100 *24*.
2816.6 *4*	<2.7	2816.57	(1,2$^+$)	0.0	0$^+$			%Iγ=0.6 *6* I_γ: from branching ratio in 2005Gi17. Other: 8.1 *9* in Adopted Levels, Gammas dataset. Iγ(2816.6γ)/Iγ(2392.8γ)=<56/100 *3*.
2817.3[‡] *9*	2.1[‡] *6*	3242.1	(1,2$^+$)	424.05	2$^+$			%Iγ=0.92 *27*
2997.5[‡] *5*	0.69[‡] *5*	3421.6	(0$^+$,1,2)	424.05	2$^+$			%Iγ=0.302 *24*
3178.3[‡] *2*	9.4[‡] *11*	3602.81	1$^-$	424.05	2$^+$	[E1]	1.35×10^{-3} *2*	α(K)=3.04×10^{-5} *4*; α(L)=3.16×10^{-6} *4*; α(M)=5.10×10^{-7} *7* α(N)=5.18×10^{-8} *7*; α(IPF)=0.001313 *18* %Iγ=4.1 *5*
3214.2[‡] *14*	1.7[‡] *4*	3636.3	1,2$^{(+)}$	424.05	2$^+$			%Iγ=0.74 *18*
3216.3[‡] *4*	1.2[‡] *2*	3986.6	1,2$^{(+)}$	769.94	0$^+$			%Iγ=0.53 *9*
3242.3[‡] *3*	1.2[‡] *2*	3242.1	(1,2$^+$)	0.0	0$^+$			%Iγ=0.53 *9* Iγ(3242.3γ)/Iγ(2817.3γ)=57 *9*/100 *29*.
3257.4[‡] *5*	0.46[‡] *15*	4026.72	1,2$^{(+)}$	769.94	0$^+$			%Iγ=0.20 *7* Iγ(3257.4γ)/Iγ(3602.2γ)=27 *9*/100 *24*.
3327.6[‡] *5*	0.29[‡] *8*	4097.74	1,2$^{(+)}$	769.94	0$^+$			%Iγ=0.13 *4* Iγ(3327.6γ)/Iγ(3673.6γ)=13 *4*/100 *11*.
3553.6[‡] *4*	0.97[‡] *16*	3978.0	1,2$^{(+)}$	424.05	2$^+$			%Iγ=0.43 *7*
3562.7[‡] *4*	1.1[‡] *2*	3986.6	1,2$^{(+)}$	424.05	2$^+$			%Iγ=0.48 *9* Iγ(3562.7γ)/Iγ(3216.3γ)=93 *14*/100 *16*.
3602.2[‡] *2*	1.7[‡] *4*	4026.72	1,2$^{(+)}$	424.05	2$^+$			%Iγ=0.74 *18*
3602.8[‡] *10*	3.4[‡] *7*	3602.81	1$^-$	0.0	0$^+$	E1	1.54×10^{-3} *2*	α(K)=2.58×10^{-5} *4*; α(L)=2.67×10^{-6} *4*; α(M)=4.32×10^{-7} *6* α(N)=4.38×10^{-8} *6*; α(IPF)=0.001512 *21* %Iγ=1.49 *31* Iγ(3602.8γ)/Iγ(3178.3γ)=36 *7*/100 *12*.
3636.1[‡] *3*	0.75[‡] *14*	3636.3	1,2$^{(+)}$	0.0	0$^+$			%Iγ=0.33 *6* Iγ(3636.1γ)/Iγ(3214.2γ)=44 *8*/100 *23*.
3673.6[‡] *2*	2.2[‡] *2*	4097.74	1,2$^{(+)}$	424.05	2$^+$			%Iγ=0.96 *9*
3978.2[‡] *4*	0.9[‡] *4*	3978.0	1,2$^{(+)}$	0.0	0$^+$			%Iγ=0.39 *18* Iγ(3978.2γ)/Iγ(3553.6γ)=93 *14*/100 *17*.
4026.8[‡] *6*	0.86[‡] *16*	4026.72	1,2$^{(+)}$	0.0	0$^+$			%Iγ=0.38 *7* Iγ(4026.8γ)/Iγ(3602.2γ)=51 *9*/100 *24*.
4098.8[‡] *17*	1.00[‡] *17*	4097.74	1,2$^{(+)}$	0.0	0$^+$			%Iγ=0.44 *8* Iγ(4098.8γ)/Iγ(3673.6γ)=46 *8*/100 *11*.

$\gamma(^{76}$Kr) (continued)

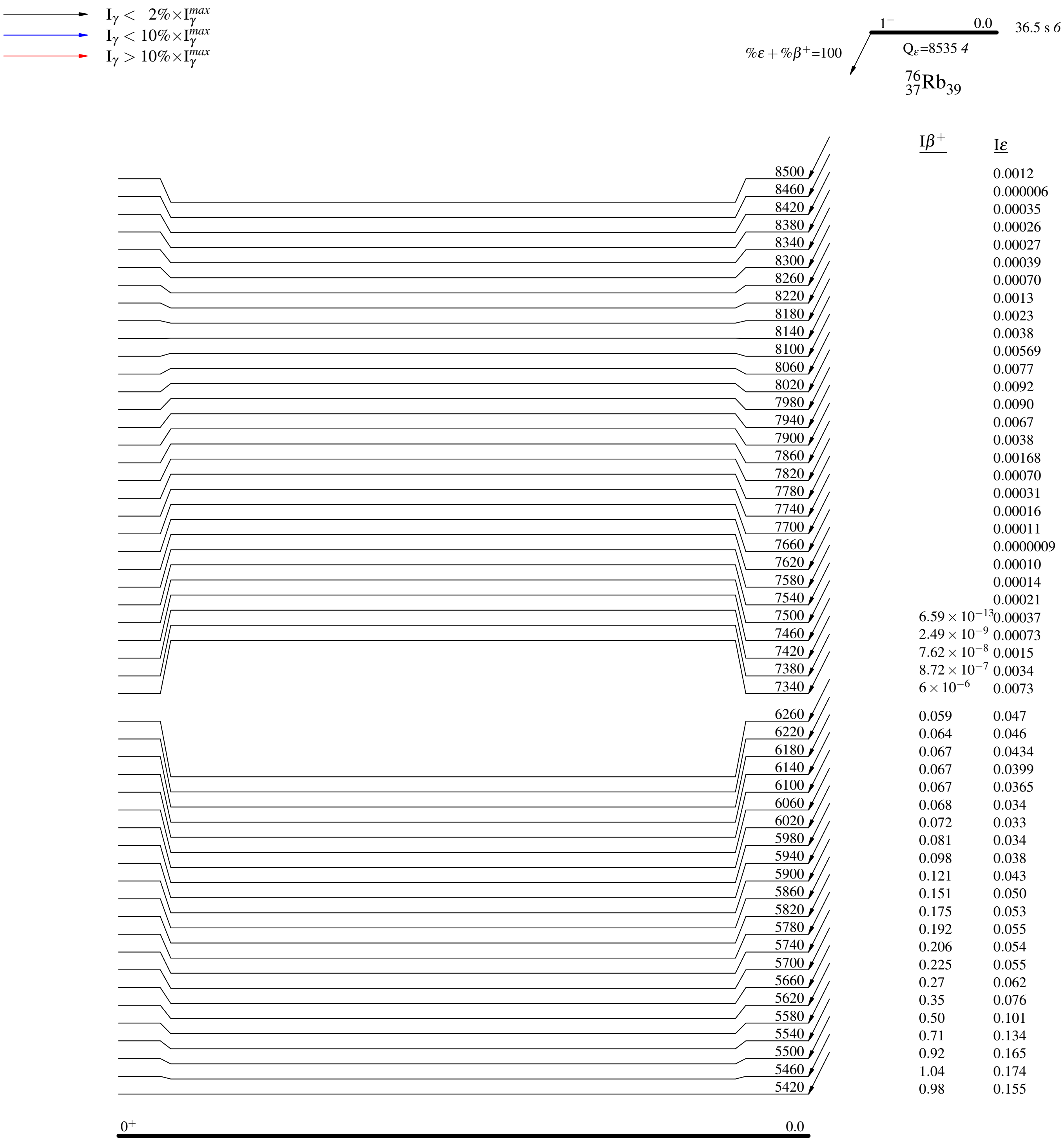
[†] Additional information 2.
[‡] From 2005Gi17, new transition reported.
[#] From weighted average of values from 1984Mo22 and 1985Pi08, except that 2350.9, 2392.8, 2816.6 and 2600.2 γ rays were reported only by 1984Mo22. These are confirmed in 2005Gi17. 2005Gi17 quote Eγ values listed without uncertainties from 1995-NDS (1995Si03). The Iγ values have been adjusted here to 100 for 424.0γ. Branching ratios, determined independently by 2005Gi17 from $\gamma\gamma$ data, are listed under comments, and used in Adopted dataset.
[@] From Adopted Gammas, unless otherwise stated. The ce data in this decay are also used to assign multipolarities and mixing ratios.
[&] Assigned by evaluators from α(K)exp value of 2005Gi17.
[a] For absolute intensity per 100 decays, multiply by 0.438 *14*.
[b] Placement of transition in the level scheme is uncertain.

$^{76}_{36}$Kr$_{40}$-18

^{76}Rb $\varepsilon+\beta^+$ decay (36.5 s) 2005Gi17,1985Pi08,1984Mo22

Decay Scheme

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

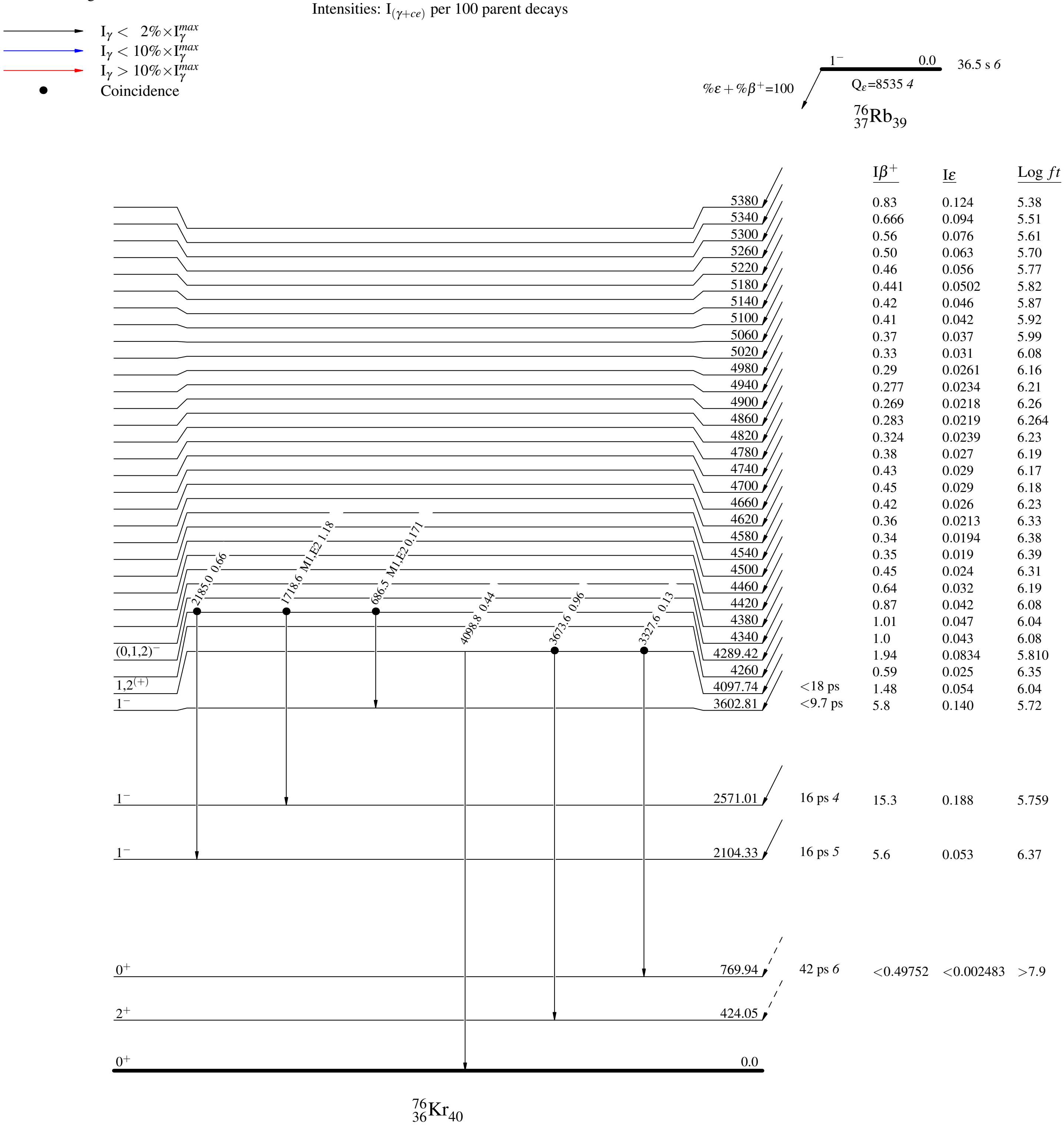


	$I\beta^+$	$I\varepsilon$	Log ft
8500		0.0012	3.1
8460		0.000006	4.3
8420		0.00035	4.9
8380		0.00026	5.4
8340		0.00027	5.55
8300		0.00039	5.56
8260		0.00070	5.45
8220		0.0013	5.31
8180		0.0023	5.17
8140		0.0038	5.05
8100		0.00569	4.96
8060		0.0077	4.90
8020		0.0092	4.90
7980		0.0090	4.97
7940		0.0067	5.16
7900		0.0038	5.47
7860		0.00168	5.88
7820		0.00070	6.31
7780		0.00031	6.71
7740		0.00016	7.04
7700		0.00011	7.25
7660		0.0000009	7.38
7620		0.00010	7.37
7580		0.00014	7.26
7540		0.00021	7.12
7500	6.59×10^{-13}	0.00037	25.5
7460	2.49×10^{-9}	0.00073	6.65
7420	7.62×10^{-8}	0.0015	6.37
7380	8.72×10^{-7}	0.0034	6.04
7340	6×10^{-6}	0.0073	5.74
6260	0.059	0.047	5.51
6220	0.064	0.046	5.53
6180	0.067	0.0434	5.57
6140	0.067	0.0399	5.62
6100	0.067	0.0365	5.68
6060	0.068	0.034	5.72
6020	0.072	0.033	5.75
5980	0.081	0.034	5.75
5940	0.098	0.038	5.72
5900	0.121	0.043	5.68
5860	0.151	0.050	5.63
5820	0.175	0.053	5.61
5780	0.192	0.055	5.61
5740	0.206	0.054	5.63
5700	0.225	0.055	5.63
5660	0.27	0.062	5.59
5620	0.35	0.076	5.52
5580	0.50	0.101	5.41
5540	0.71	0.134	5.30
5500	0.92	0.165	5.22
5460	1.04	0.174	5.20
5420	0.98	0.155	5.27

^{76}Rb ε+β^+ decay (36.5 s) 2005Gi17,1985Pi08,1984Mo22

Decay Scheme (continued)

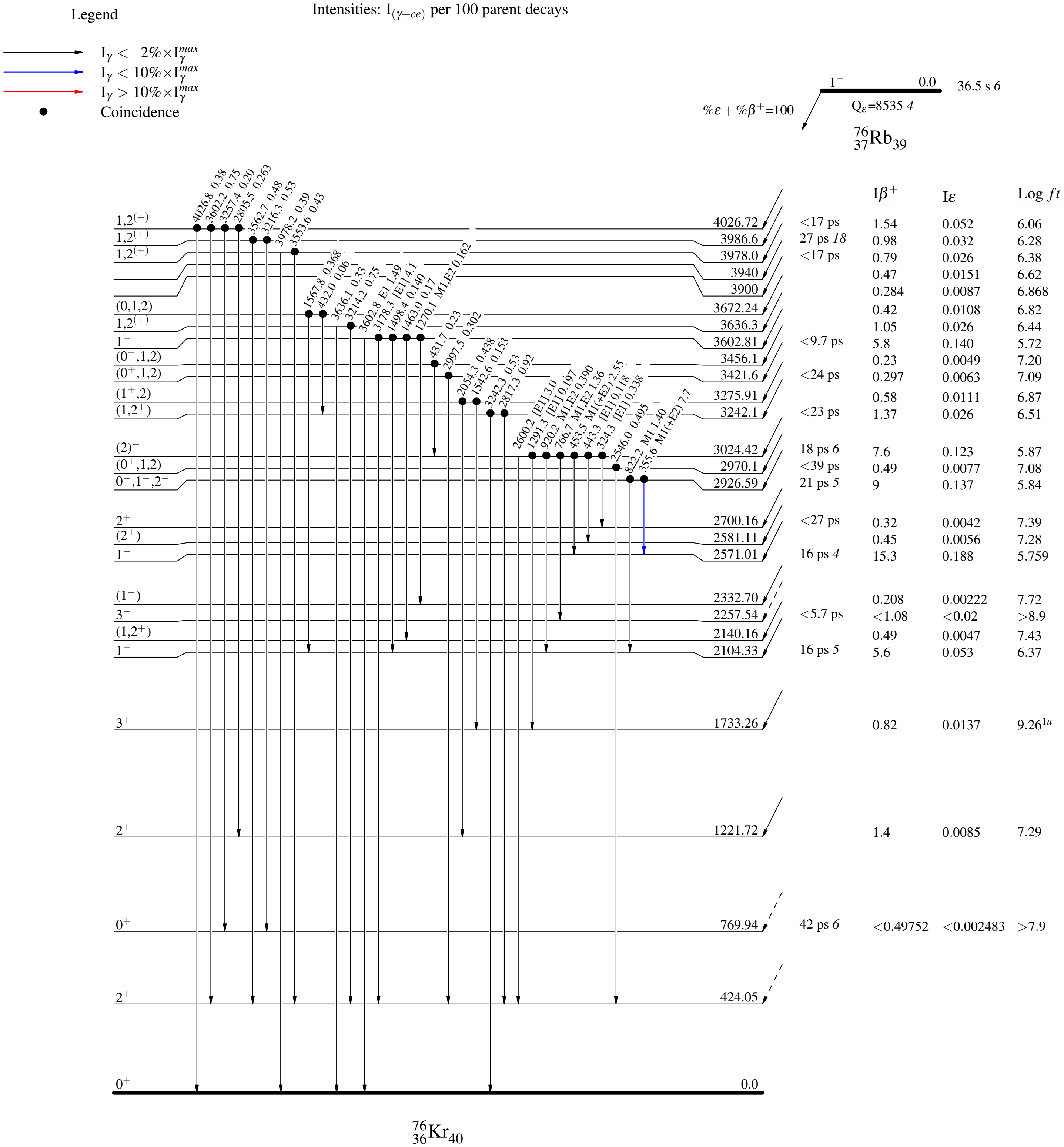
Intensities: $I_{(\gamma+ce)}$ per 100 parent decays



^{76}Rb $\varepsilon+\beta^+$ decay (36.5 s) 2005Gi17,1985Pi08,1984Mo22

Decay Scheme (continued)

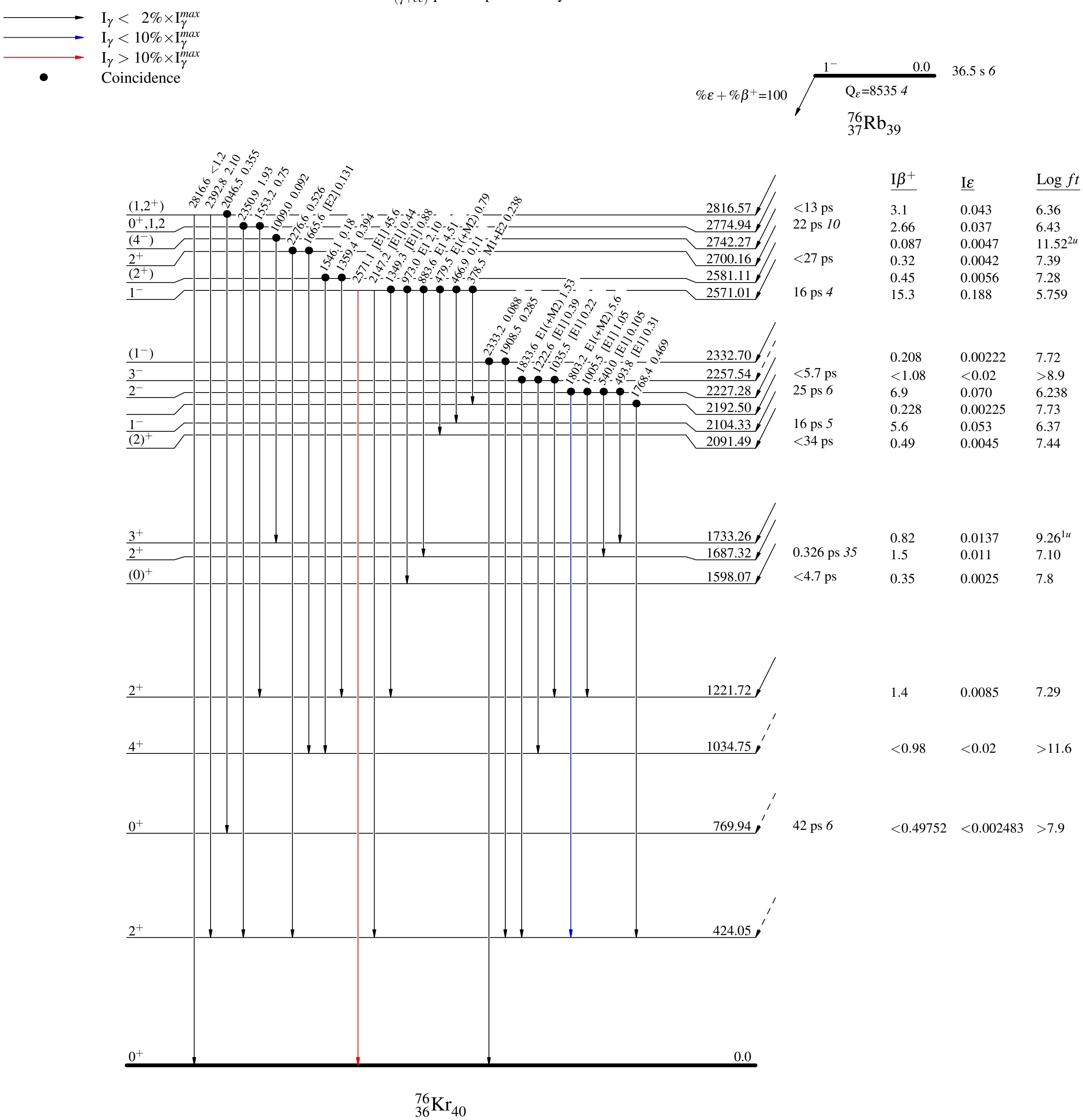
Intensities: $I_{(\gamma+ce)}$ per 100 parent decays



^{76}Rb $\varepsilon+\beta^+$ decay (36.5 s) 2005Gi17,1985Pi08,1984Mo22

Decay Scheme (continued)

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



^{76}Rb ε+β^+ decay (36.5 s) 2005Gi17,1985Pi08,1984Mo22

Decay Scheme (continued)

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