^{90}Rb β^- decay (258 s) 1981Ta05

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	S. K. Basu, E. A. Mccutchan	NDS 165, 1 (2020)	1-Mar-2020

Parent: ^{90}Rb: E=106.90 *3*; $J^\pi=3^-$; $T_{1/2}$=258 s *4*; Q(β^-)=6584 *7*; %β^- decay=97.5 *5*

1981Ta05: From ^{235}U(n,F). Mass separation of ^{90}Kr. NaI and Ge(Li). Measured Eγ, Iγ, $\gamma\gamma$ coin, $\gamma\gamma(\theta)$. The 158-s and 258-s ^{90}Rb activities were distinguished by varying collection and observation times.

1977Hu03: From ^{235}U(n,F). Mass separation. Measured $T_{1/2}$, Eγ, Iγ, $\gamma\gamma$ coin, Eβ.

1997Gr09: from ^{252}Cf. On-line mass separation and measurement of γ rays using a total absorption γ-ray spectrometer to determine β^- distributions of decay intensities of fission products. Detector consisted of a large NaI scintillator with a deep axial well for the radioactive source and for a Si(Li) detector to measure $\beta\gamma$ coincidences.

Others: 1964Jo02, 1967Zh01, 1972Eh02, 1973Si12, 1973Cl02, 1974Gr29, 1976Wo05, 1978St02, 1978Wu04, 1978Wo15, 1980De02.

All data are from 1981Ta05, except as noted.

α: Additional information 1.

^{90}Sr Levels

E(level)	J^π[†]	$T_{1/2}$[‡]
0	0^+	28.91[†] y *3*
831.67 *4*	2^+	7 ps *2*
1655.89 *7*	4^+	12 ps *2*
1892.34 *5*	2^+	2 ps *1*
2207.01 *5*	(3^-)	≤1 ps
2497.30 *6*	(2^+)	≤3 ps
2527.90 *8*	$3^-,4^+$	≤6 ps
2570.59 *9*		10 ps *7*
2927.68 *8*	4	
2971.00 *18*	0^+	
3032.85 *8*		≤1 ps
3039.25 *8*	1	
3144.9 *4*	(5^-)	
3383.36 *10*		
3449.81 *6*	3	≤4 ps
3555.87 *18*		
3584.41 *8*		
3627.0 *3*		
3954.3 *2*		
4036.86 *13*		
4135.62 *10*	$(1,2^+)$	
4148.80 *10*		
4335.35 *8*		
4366.05 *11*		
4404.60 *18*		
4430.9 *3*		
4685.5 *3*		
4804.0 *5*		
4805.10 *23*		
4808.50 *24*		
4854.3? *4*		
4947.4? *4*	(2^+)	
5024.52 *24*		
5026.8? *3*		
5041.42 *12*		
5089.44 *16*		
5239.2 *5*		
5285.87 *20*		

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^{90}Rb β^- decay (258 s) 1981Ta05 (continued)

^{90}Sr Levels (continued)

E(level)	Comments
5426.65 *14*	Iβ=0.57% (1997Gr09). From I(γ+ce) balance at this level, the β feeding is 0.003 % *40*, consistent with zero feeding.
5431.1? *3*	
5557.8 *3*	
5785.1? *8*	
5822.0 *5*	
5827.9 *4*	

† From the Adopted Levels.
‡ From $\beta\gamma$(t) (1991Ma05), except where noted,

β^- radiations

β^- branches are from I(γ+ce) balance at each level. Values measured with a total absorption γ-ray spectrometer (1997Gr09) are also shown with individual levels. 1997Gr09 found an excess of β^- population to levels above 4394 keV, and a deficit for levels below 1994 keV, compared to those values deduced from transition-intensity balances. The most dramatic example is the β^- population to the 831-keV level: 15%, from transition-intensity balance; 1.8% from the total absorption γ-ray spectrometer measurement (1997Gr09). 1997Gr09 proposed a fictitious level at about 3900 keV with a β^- population of 1.64% in order to interpret their data.

E(decay)	E(level)	Iβ^-†	Log *ft*	Comments
(863 *7*)	5827.9	1.23 *23*	5.32 *9*	av Eβ=298.9 *27* Iβ^-: 0.82% (1997Gr09).
(869 *7*)	5822.0	0.61 *20*	5.63 *15*	av Eβ=301.3 *28* Iβ^-: 0.40% (1997Gr09).
(906 *7*)	5785.1?	0.34 *10*	5.96 *13*	av Eβ=316.5 *28* Iβ^-: 0.23% (1997Gr09).
(1133 *7*)	5557.8	0.57 *6*	6.10 *5*	av Eβ=412.2 *29* Iβ^-: 0.68% (1997Gr09).
(1260 *7*)	5431.1?	0.94 *11*	6.06 *6*	av Eβ=466.9 *29* Iβ^-: 1.36% (1997Gr09).
(1405 *7*)	5285.87	1.61 *9*	6.01 *3*	av Eβ=530.7 *30* Iβ^-: 2.99% (1997Gr09).
(1452 *7*)	5239.2	0.43 *7*	6.64 *8*	av Eβ=551.4 *30* Iβ^-: 0.79% (1997Gr09).
(1601 *7*)	5089.44	1.37 *9*	6.30 *3*	av Eβ=618.4 *30* Iβ^-: 2.69% (1997Gr09).
(1649 *7*)	5041.42	3.08 *15*	6.002 *24*	av Eβ=640.0 *30* Iβ^-: 6.02% (1997Gr09).
(1664 *7*)	5026.8?	0.51 *7*	6.80 *6*	av Eβ=646.7 *30* Iβ^-: 1.03% (1997Gr09).
(1666 *7*)	5024.52	1.14 *10*	6.45 *4*	av Eβ=647.7 *30* Iβ^-: 2.22% (1997Gr09).
(1744 *7*)	4947.4?	0.49 *9*	6.90 *8*	av Eβ=682.6 *30*
(1837 *7*)	4854.3?	0.34 *7*	7.15 *9*	av Eβ=725.0 *31* Iβ^-: 0.82% (1997Gr09).
(1882 *7*)	4808.50	0.68 *10*	6.89 *7*	av Eβ=746.0 *31* Iβ^-: 1.59% (1997Gr09).
(1886 *7*)	4805.10	0.44 *5*	7.08 *5*	av Eβ=747.6 *31* Iβ^-: 1.03% (1997Gr09).
(1887 *7*)	4804.0	0.48 *9*	7.04 *9*	av Eβ=748.1 *31* Iβ^-: 1.12% (1997Gr09).

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^{90}Rb β^- decay (258 s) 1981Ta05 (continued)

β^- radiations (continued)

E(decay)	E(level)	Iβ^-[†]	Log *ft*	Comments
(2005 *7*)	4685.5	0.23 *6*	7.47 *12*	av Eβ=802.5 *31* Iβ^-: 0.27% (1997Gr09).
(2260 *7*)	4430.9	0.92 *12*	7.08 *6*	av Eβ=920.5 *31* Iβ^-: 1.14% (1997Gr09).
(2286 *7*)	4404.60	1.61 *10*	6.86 *3*	av Eβ=932.7 *31* Iβ^-: 1.99% (1997Gr09).
(2356 *7*)	4335.35	9.00 *21*	6.169 *14*	av Eβ=965.0 *31* Iβ^-: 8.78% (1997Gr09).
(2542 *7*)	4148.80	15.7 *4*	6.067 *14*	av Eβ=1052.4 *31* Iβ^-: 18.87% (1997Gr09).
(2654 *7*)	4036.86	1.77 *14*	7.09 *4*	av Eβ=1105.0 *31* Iβ^-: 2.08% (1997Gr09).
(2737 *7*)	3954.3	0.47 *21*	7.73 *20*	av Eβ=1144.0 *32* Iβ^-: 0.83% (1997Gr09).
(3106 *7*)	3584.41	14.3 *8*	6.48 *3*	av Eβ=1319.1 *32* Iβ^-: 15.18% (1997Gr09).
(3241 *7*)	3449.81	6.54 *23*	6.897 *18*	av Eβ=1383.1 *32* Iβ^-: 7.29% (1997Gr09).
(3546 *7*)	3144.9	0.29 *6*	8.42 *9*	av Eβ=1528.5 *32* Iβ^-: 0.35% (1997Gr09).
(3658 *7*)	3032.85	0.60 *18*	8.16 *13*	av Eβ=1582.1 *32* Iβ^-: 0.70% (1997Gr09).
(3763 *7*)	2927.68	0.87 *24*	8.06 *12*	av Eβ=1632.4 *32* Iβ^-: 1.03% (1997Gr09).
(4120 *7*)	2570.59	1.32 *11*	8.05 *4*	av Eβ=1803.6 *32* Iβ^-: 1.17% (1997Gr09).
(4163 *7*)	2527.90	1.74 *11*	7.95 *3*	av Eβ=1824.1 *32* Iβ^-: 1.41% (1997Gr09).
(4194 *7*)	2497.30	1.49 *21*	8.03 *7*	av Eβ=1838.8 *32* Iβ^-: 1.21% (1997Gr09).
(4484 *7*)	2207.01	3.1 *11*	7.84 *16*	av Eβ=1978.3 *32* Iβ^-: 2.81% (1997Gr09).
(4799 *7*)	1892.34	4.2 *4*	7.84 *5*	av Eβ=2129.7 *32* Iβ^-: 1.82% (1997Gr09).
(5035 *7*)	1655.89	3.5 *6*	8.01 *8*	av Eβ=2243.6 *32* Iβ^-: 1.99% (1997Gr09).
(5859 *7*)	831.67	15 *4*	7.67 *12*	av Eβ=2641.1 *32* Iβ^-: 1.76% (1997Gr09).

[†] For absolute intensity per 100 decays, multiply by 1.001 *5*.

^{90}Rb β^- decay (258 s) 1981Ta05 (continued)

$\gamma(^{90}Sr)$

Iγ normalization: deduced by evaluators assuming no β^- feeding to g.s. (3^- to 0^+), and using ΣI(γ+ce)(to g.s. of ^{90}Sr) + ΣI(γ+ce)(to g.s. of ^{90}Rb)=100%.
For unplaced transitions possibly belonging to 258 s decay, see ^{90}Rb β^- decay (158 s).

E_γ[†]	I_γ[#]	E_i(level)	J_i^π	E_f	J_f^π	Mult.[‡]	δ[‡]	α	Comments
314.5 *3*	8.8 *4*	2207.01	(3^-)	1892.34	2^+	[E1]		0.00374	α(K)=0.00331 *5*; α(L)=0.000359 *6*; α(M)=6.02×10^{-5} *9*; α(N)=7.51×10^{-6} *11*; α(O)=4.78×10^{-7} *7*
395.8 *8*	0.8 *4*	5822.0		5426.65					
442.3 *4*	1.2 *3*	4808.50		4366.05					
522.10 *13*	4.2 *3*	3449.81	3	2927.68	4	[E1]		1.01×10^{-3}	α(K)=0.000899 *13*; α(L)=9.70×10^{-5} *14*; α(M)=1.626×10^{-5} *23*; α(N)=2.04×10^{-6} *3* α(O)=1.315×10^{-7} *19* E$_\gamma$: author's value of 552.10 *13* in Table I is a misprint.
551.20 *25*	9.1 *7*	2207.01	(3^-)	1655.89	4^+	[E1]		8.91×10^{-4}	α(K)=0.000790 *11*; α(L)=8.52×10^{-5} *12*; α(M)=1.427×10^{-5} *20*; α(N)=1.79×10^{-6} *3* α(O)=1.157×10^{-7} *17*
720.70 *9*	5.7 *4*	2927.68	4	2207.01	(3^-)				
739.2 *4*	0.0071 *12*	4366.05		3627.0					I$_\gamma$: From Iγ/Iγ(4366γ) in 158-s decay.
752.1 *3*	0.0123 *17*	4135.62	($1,2^+$)	3383.36					I$_\gamma$: From Iγ/Iγ(4136γ) in 158-s decay.
765.1 *7*	0.9 *3*	4148.80		3383.36					
779.9 *4*	2.9 *6*	4335.35		3555.87					
824.23 *10*	92 *5*	1655.89	4^+	831.67	2^+	E2		9.22×10^{-4}	α(K)=0.000816 *12*; α(L)=8.97×10^{-5} *13*; α(M)=1.506×10^{-5} *21*; α(N)=1.88×10^{-6} *3* α(O)=1.204×10^{-7} *17*
831.69 *5*	1000 *38*	831.67	2^+	0	0^+	E2		9.02×10^{-4}	α(K)=0.000798 *12*; α(L)=8.77×10^{-5} *13*; α(M)=1.471×10^{-5} *21*; α(N)=1.84×10^{-6} *3* α(O)=1.178×10^{-7} *17*
872.00 *15*	5.6 *4*	2527.90	$3^-,4^+$	1655.89	4^+				
886.3 *3*	0.062 *12*	3383.36		2497.30	(2^+)				I$_\gamma$: From Iγ/Iγ(3383γ) in 158-s decay.
921.20 *24*	3.2 *7*	3449.81	3	2527.90	$3^-,4^+$				
952.44 *7*	17.9 *6*	3449.81	3	2497.30	(2^+)				
985.4 *5*	0.85 *25*	3555.87		2570.59					
1003.9 *9*	0.6 *3*	4148.80		3144.9	(5^-)				
1013.95 *19*	2.7 *3*	3584.41		2570.59					
1021.9 *7*	0.8 *3*	4404.60		3383.36					
1027.1 *4*	1.3 *3*	3954.3		2927.68	4				
1060.70 *4*	81 *3*	1892.34	2^+	831.67	2^+	M1+E2	+0.50 *3*	4.97×10^{-4}	α(K)=0.000440 *7*; α(L)=4.75×10^{-5} *7*; α(M)=7.97×10^{-6} *12*; α(N)=1.002×10^{-6} *14*; α(O)=6.59×10^{-8} *10* Mult.,δ: (1060γ)(831γ)(θ): A$_2$=−0.105 *16*, A$_4$=0.083 *18* (1981Ta05).
1086.7 *8*	0.74 *15*	3584.41		2497.30	(2^+)				

^{90}Rb β^- decay (258 s) 1981Ta05 (continued)

$\gamma(^{90}Sr)$ (continued)

E_γ[†]	I_γ[#]	E_i(level)	J_i^π	E_f	J_f^π	Mult.[‡]	δ[‡]	α	Comments
1109.2 *8*	1.4 *8*	4036.86		2927.68	4				
1140.50 *6*	9.4 *5*	3032.85		1892.34	2^+				
1146.96 *25*	0.16 *5*	3039.25	1	1892.34	2^+				
1176.9 *9*	0.039 *16*	3383.36		2207.01	(3^-)				I_γ: From $I\gamma/I\gamma(3383\gamma)$ in 158-s decay.
1242.84 *4*	32.2 *18*	3449.81	3	2207.01	(3^-)	D			Mult.: $(1243\gamma)(831\gamma)(\theta)$: A_2=0.01 *4*, A_4=−0.02 *5* (1981Ta05).
1271.77 *7*	16.4 *22*	2927.68	4	1655.89	4^+				
1298.5[@] *5*	2.1 *4*	4854.3?		3555.87					
1302.2 *3*	2.0 *5*	4685.5		3383.36					
1326.46 *21*	0.0186 *23*	4366.05		3039.25	1				I_γ: From $I\gamma/I\gamma(4366\gamma)$ in 158-s decay.
1375.36 *3*	177 *7*	2207.01	(3^-)	831.67	2^+	(E1(+M2))	−0.02 *6*	2.98×10^{-4}	α(K)=0.000124 *3*; α(L)=1.32×10^{-5} *4*; α(M)=2.22×10^{-6} *6*; α(N)=2.79×10^{-7} *7*; α(O)=1.83×10^{-8} *5* Mult.,δ: $(1375\gamma)(831\gamma)(\theta)$: A_2=−0.089 *13*, A_4=0.051 *15* (1981Ta05), δ is for J=3 for 2207 level. δ: other: +0.464 *21* for J=2 (1981Ta05).
1377.2 *5*	24 *8*	3584.41		2207.01	(3^-)				
1391.6 *3*	4.6 *8*	4430.9		3039.25	1				
1425.2 *3*	2.9 *3*	4808.50		3383.36					
1438.3 *8*	0.0045 *17*	4366.05		2927.68	4				I_γ: From $I\gamma/I\gamma(4366\gamma)$ in 158-s decay.
1456.7 *3*	2.5 *7*	3954.3		2497.30	(2^+)				
1460.1 *6*	2.0 *5*	4430.9		2971.00	0^+				
1489.0 *4*	3.7 *5*	3144.9	(5^-)	1655.89	4^+				
1576.9[@] *7*	1.2 *4*	5026.8?		3449.81	3				
1603.52 *20*	4.9 *5*	5557.8		3954.3					
1658.9 *3*	4.6 *6*	5285.87		3627.0					
1665.61 *7*	51.0 *12*	2497.30	(2^+)	831.67	2^+				
1686.2 *6*	1.3 *4*	5822.0		4135.62	$(1,2^+)$				
1692.07 *25*	2.9 *5*	3584.41		1892.34	2^+				
1696.16 *7*	17.5 *6*	2527.90	$3^-,4^+$	831.67	2^+				
1738.93 *8*	20.0 *8*	2570.59		831.67	2^+				$(1738\gamma)(831\gamma)(\theta)$: A_2=−0.17 *7*, A_4=0.11 *8* (1981Ta05). δ: −0.12 *12* for J(2570)=3 or +0.64 *18* for J(2570)=2 or −0.06 *8* for J(2570)=1 (1981Ta05).
1747.3 *3*	2.5 *4*	3954.3		2207.01	(3^-)				
1764.5 *9*	1.0 *5*	4335.35		2570.59					
1793.89 *11*	8.9 *5*	3449.81	3	1655.89	4^+	D			Mult.: $(1793\gamma)(831\gamma)(\theta)$: A_2=−0.02 *15*, A_4=0.02 *17* (1981Ta05).
1829.82 *20*	3.7 *5*	4036.86		2207.01	(3^-)				
1838.15 *14*	8.7 *6*	4335.35		2497.30	(2^+)				
1877.40 *21*	4.7 *5*	4805.10		2927.68	4				
1892.28 *8*	4.9 *5*	1892.34	2^+	0	0^+	[E2]		4.11×10^{-4}	α(K)=0.0001370 *20*; α(L)=1.464×10^{-5} *21*; α(M)=2.45×10^{-6} *4*; α(N)=3.09×10^{-7} *5*; α(O)=2.03×10^{-8} *3*
1903.1 *6*	1.4 *6*	4430.9		2527.90	$3^-,4^+$				
1941.81 *17*	6.5 *6*	4148.80		2207.01	(3^-)				

$^{90}_{38}Sr_{52}$-5

^{90}Rb β^- decay (258 s) 1981Ta05 (continued)

$\gamma(^{90}Sr)$ (continued)

E_γ [†]	I_γ [#]	E_i(level)	J_i^π	E_f	J_f^π	Mult. [‡]	α	Comments
2128.30 *7*	55.2 *15*	4335.35		2207.01	(3^-)			
2139.33 *18*	1.4 *6*	2971.00	0^+	831.67	2^+	(E2)	4.99×10^{-4}	α(K)=0.0001094 *16*; α(L)=1.167×10^{-5} *17*; α(M)=1.96×10^{-6} *3*; α(N)=2.46×10^{-7} *4* α(O)=1.625×10^{-8} *23*
2200.9 *3*	5.1 *6*	5827.9		3627.0				
2207.47 *11*	1.71 *12*	3039.25	1	831.67	2^+			
2256.55 *17*	7.0 *5*	4148.80		1892.34	2^+			
2298.1 *9*	3.6 *20*	3954.3		1655.89	4^+			
2311.2 *6*	3.1 *10*	4808.50		2497.30	(2^+)			
2335.2[@] *10*	2.2 *9*	5785.1?		3449.81	3			
2381.5 *5*	1.8 *7*	4036.86		1655.89	4^+			
2442.9 *5*	2.8 *7*	4335.35		1892.34	2^+			
2473.94 *20*	0.09 *1*	4366.05		1892.34	2^+			
2497.27 *15*	8.1 *8*	2497.30	(2^+)	0	0^+			$(1665\gamma)(831\gamma)(\theta)$: A_2=0.23 *3*, A_4=0.02 *3* (1981Ta05). δ: +0.53 *18-11* for J=3 or +0.03 *4* for J=2 (1981Ta05).
2537.8 *9*	1.8 *7*	4430.9		1892.34	2^+			
2543.9 *3*	3.5 *4*	5041.42		2497.30	(2^+)			
2592.32 *20*	6.8 *7*	5089.44		2497.30	(2^+)			
2617.8 *3*	6.5 *9*	3449.81	3	831.67	2^+			
2724.26 *21*	4.6 *6*	3555.87		831.67	2^+			
2741.0[@] *12*	1.5 *8*	4947.4?	(2^+)	2207.01	(3^-)			
2752.68 *8*	122 *4*	3584.41		831.67	2^+			
2789.1 *22*	3.0 *19*	5822.0		3032.85				
2834.43 *13*	19.6 *12*	5041.42		2207.01	(3^-)			
2900.3 *13*	1.2 *7*	5827.9		2927.68	4			
2911.7 *11*	1.3 *7*	4804.0		1892.34	2^+			
3032.1 *5*	4.6 *7*	5239.2		2207.01	(3^-)			
3039.17 *12*	2.76 *21*	3039.25	1	0	0^+			
3197.9[@] *10*	1.5 *6*	4854.3?		1655.89	4^+			
3205.09 *16*	11.9 *9*	4036.86		831.67	2^+			
3214.5[@] *11*	1.4 *6*	5785.1?		2570.59				
3303.91 *13*	0.15 *1*	4135.62	$(1,2^+)$	831.67	2^+			
3317.00 *12*	152 *4*	4148.80		831.67	2^+			
3370.8[@] *4*	4.2 *6*	5026.8?		1655.89	4^+			
3383.24 *12*	6.52 *14*	3383.36		0	0^+			
3503.52 *15*	25.1 *11*	4335.35		831.67	2^+			
3534.24 *13*	0.77 *3*	5426.65		1892.34	2^+			
3538.6[@] *6*	5.1 *11*	5431.1?		1892.34	2^+			
3572.82 *18*	16.3 *10*	4404.60		831.67	2^+			
3620.8 *11*	6.1 *23*	5827.9		2207.01	(3^-)			
3627.4 *7*	10 *4*	3627.0		0	0^+			
3929.4 *14*	1.4 *8*	5822.0		1892.34	2^+			

$^{90}_{38}Sr_{52}$-6

^{90}Rb β^- decay (258 s) 1981Ta05 (continued)

$\gamma(^{90}Sr)$ (continued)

E_γ †	I_γ #	E_i(level)	J_i^π	E_f	J_f^π	E_γ †	I_γ #	E_i(level)	J_i^π	E_f	J_f^π
3972.2 *5*	3.8 *7*	4804.0		831.67	2^+	4365.90 *18*	1.13 *8*	4366.05		0	0^+
4115.6@ *4*	3.7 *6*	4947.4?	(2^+)	831.67	2^+	4454.07 *21*	12.5 *8*	5285.87		831.67	2^+
4135.51 *17*	1.17 *4*	4135.62	$(1,2^+)$	0	0^+	4599.4@ *3*	4.9 *4*	5431.1?		831.67	2^+
4192.75 *23*	12.1 *11*	5024.52		831.67	2^+	4685.0 *14*	0.4 *3*	4685.5		0	0^+
4209.5 *3*	9.6 *9*	5041.42		831.67	2^+	4726.1 *7*	1.2 *3*	5557.8		831.67	2^+
4257.34 *24*	7.8 *6*	5089.44		831.67	2^+	4996.2 *11*	0.7 *3*	5827.9		831.67	2^+

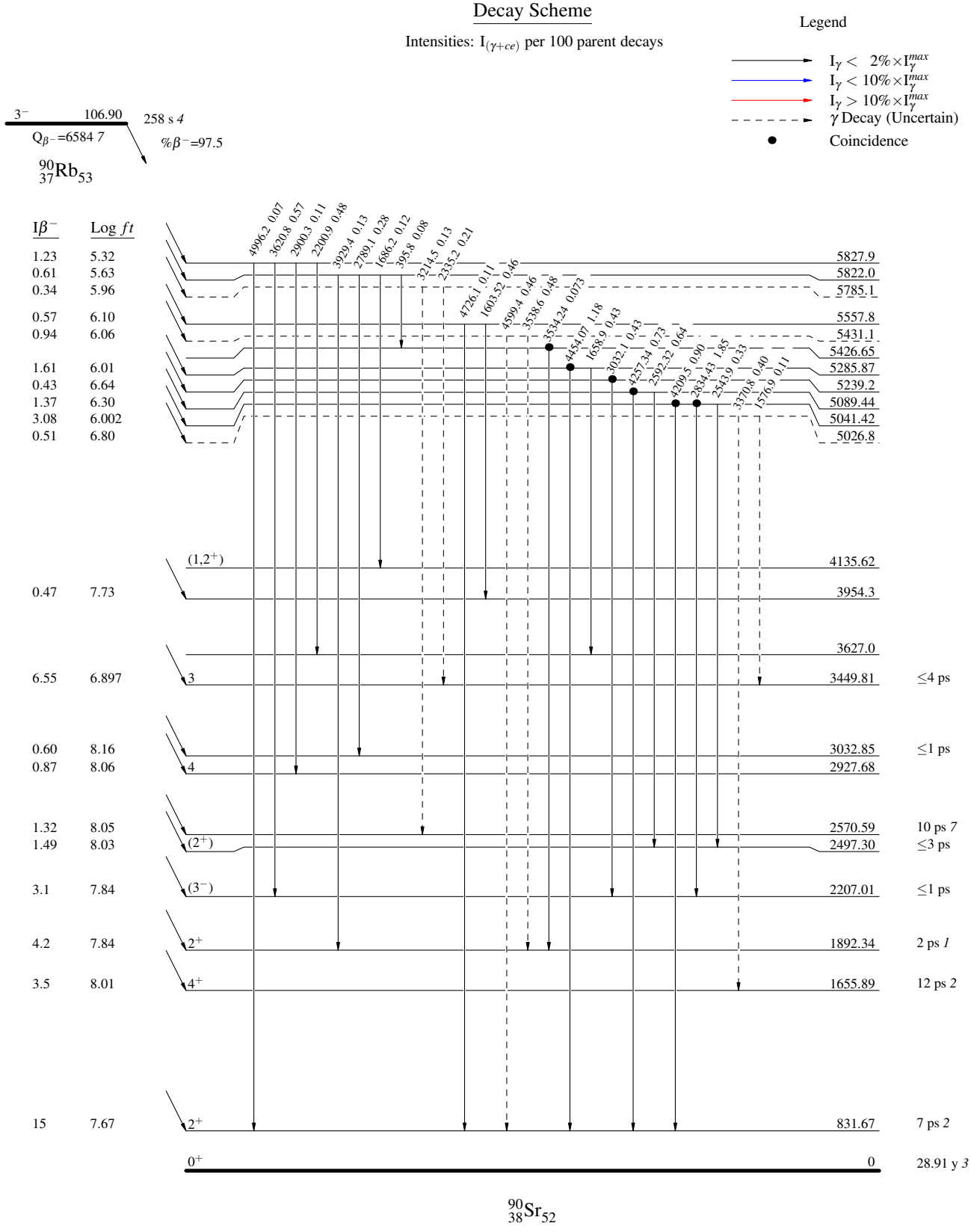
† From 1981Ta05, except where noted.
‡ From the Adopted Gammas. In cases where adopted values derive from this dataset, supporting details are given in the comments.
# For absolute intensity per 100 decays, multiply by 0.094 *4*.
@ Placement of transition in the level scheme is uncertain.

$^{90}_{38}Sr_{52}$-7

^{90}Rb β^- decay (258 s) 1981Ta05

Decay Scheme

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

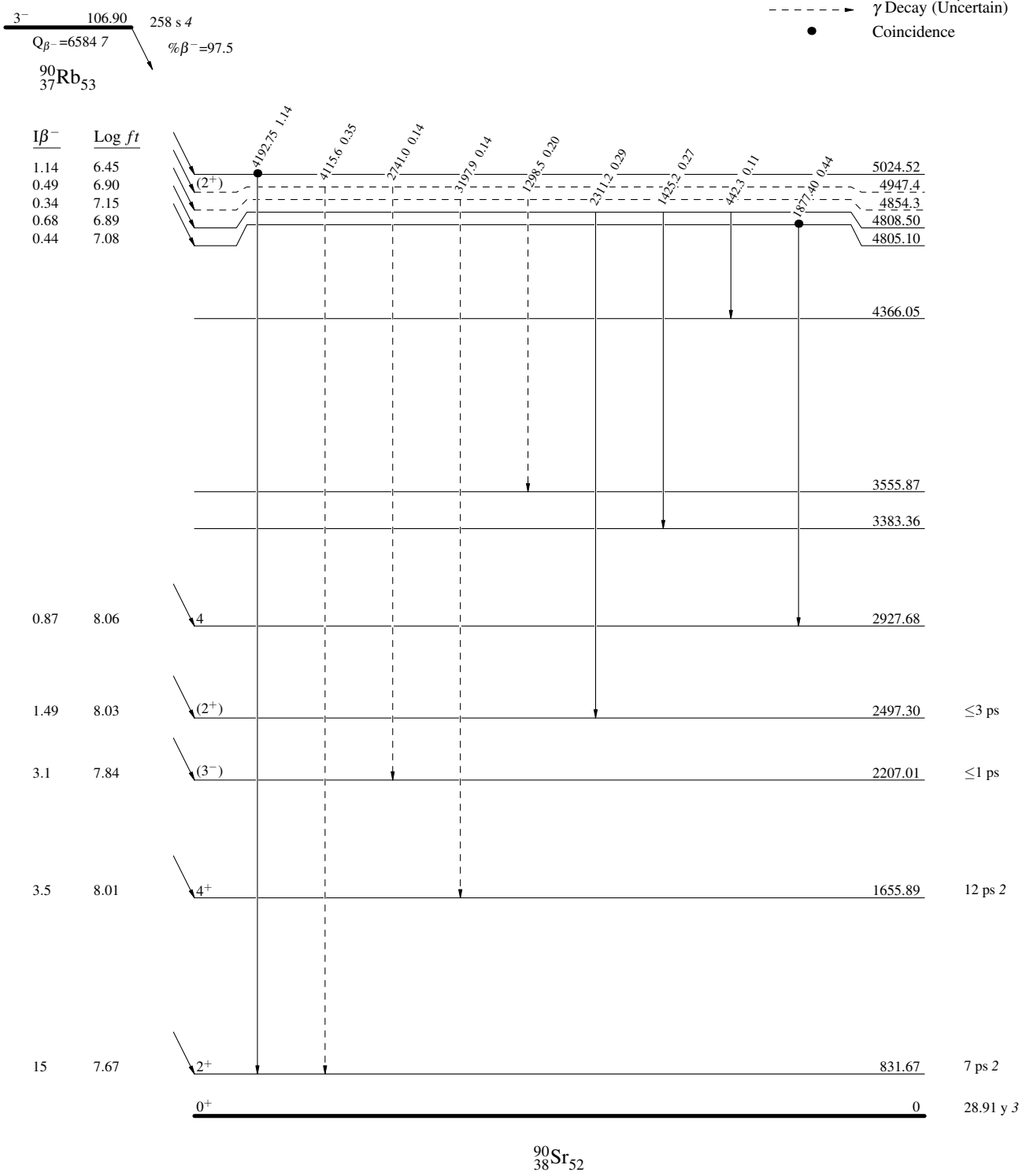


^{90}Rb β^- decay (258 s) 1981Ta05

Decay Scheme (continued)

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

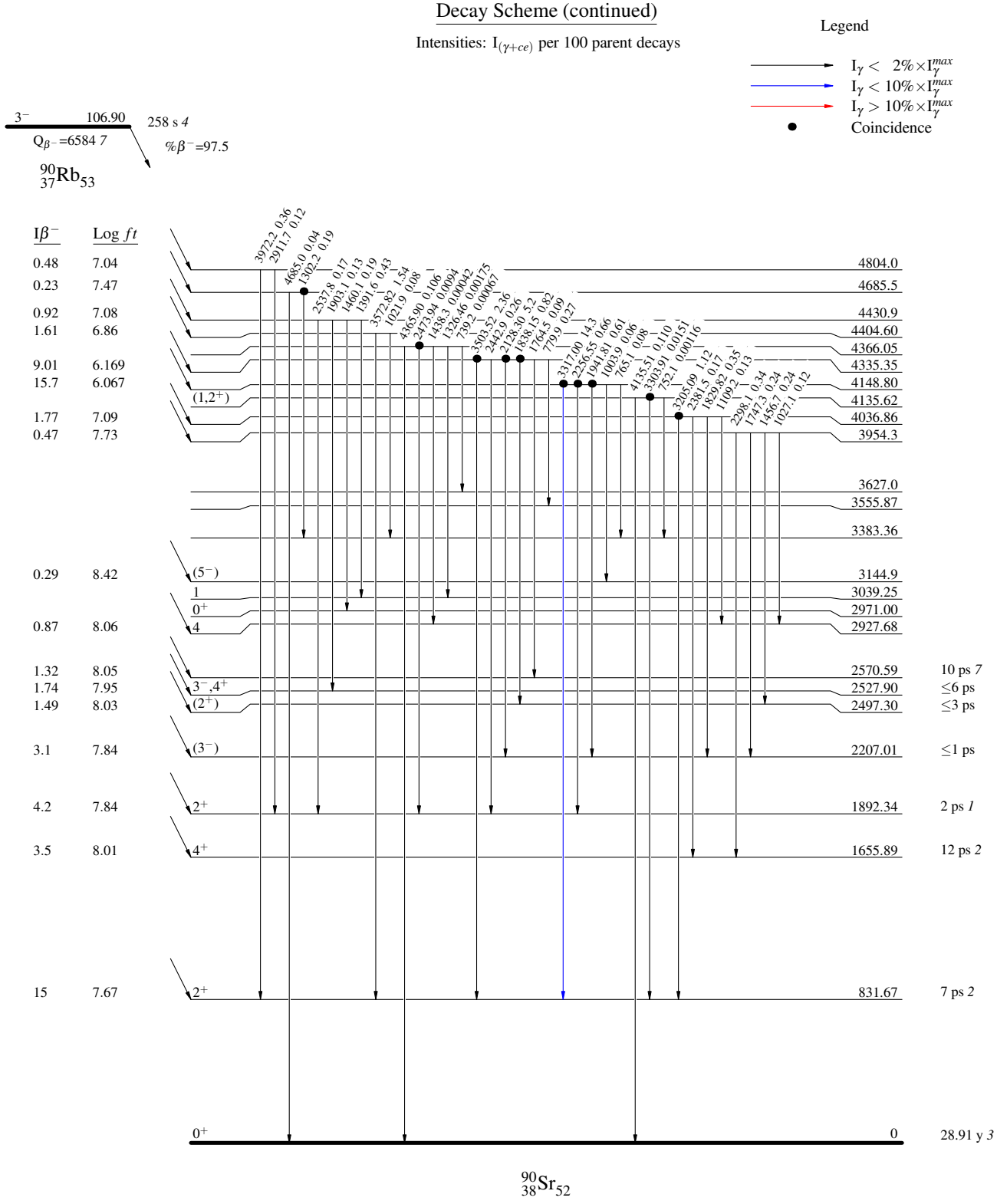
Legend
- $I_\gamma < 2\% \times I_\gamma^{max}$
- $I_\gamma < 10\% \times I_\gamma^{max}$
- $I_\gamma > 10\% \times I_\gamma^{max}$
- γ Decay (Uncertain)
- Coincidence



^{90}Rb β^- decay (258 s) 1981Ta05

Decay Scheme (continued)

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



^{90}Rb β^- decay (258 s) 1981Ta05

Decay Scheme (continued)

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