^{44}K β^- decay (22.13 min) 1976Co06

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	Jun Chen and Balraj Singh	NDS 190,1 (2023)	20-Jun-2023

Parent: ^{44}K: E=0; $J^\pi=2^-$; $T_{1/2}$=22.13 min *19*; Q(β^-)=5687.2 *5*; %β^- decay=100

^{44}K-J^π,$T_{1/2}$: From ^{44}K Adopted Levels.

^{44}K-Q(β^-): From 2021Wa16.

1976Co06: Source of ^{44}Sc was prepared by the (γ,n) reactions on natural Sc at the Livermore linear accelerator or by the (α,dxn) reaction on natural Ca metal at the Berkeley 88-inch cyclotron. γ rays were detected with a Ge(Li) detector. Measured Eγ, Iγ. Deduced levels, branching ratios, log *ft*.

1973In02 (also 1969Ta03): ^{44}K activity was produced via ^{44}Ca(n,p) reaction with neutrons from 150-kV neutron generator of the Health Physics Branch of Atomic Energy of Canada Ltd. γ rays were detected with a Ge(Li) detector and a NaI(Tl) detector. Measured Eγ, Iγ, $\gamma\gamma$-coin. Deduced levels.

Others:

$T_{1/2}$(^{44}K): 1973In02, 1961Hi17, 1960Su05, 1954Co70, 1954An25, 1937Wa06.

β^-: 1970Le05, 1961Hi17, 1960Su05, 1954Co70.

γ: 1970La11, 1970Le05, 1961Hi17, 1960Su05, 1954Co70.

^{44}Ca Levels

E(level)	J^π[†]	$T_{1/2}$[†]	Comments
0.0	0^+		
1157.0183 *30*	2^+	2.94 ps *12*	
1883.515 *13*	0^+	13.9 ps *42*	
2283.113 *9*	4^+	1.9 ps *7*	
2656.503 *12*	2^+	30 fs *3*	
3044.243 *28*	4^+	4.6 ps *+13−10*	
3301.26 *5*	2^+	35 fs *18*	
3307.864 *10*	3^-	0.15 ps *6*	
3357.27 *27*	$(2^+,3,4^+)$	<28 fs	
3580.4 *6*	0^+		
3661.526 *10*	1^-		
3676.081 *12*	(2^+)		
3711.79 *16*	4^-	<0.42 ns	
3776.26 *12*	2^-	<0.69 ns	
4094.0 *6*	$(2^+,3,4^+)$		
4260.27 *35*	$(2^+,3)$		
4315.22 *14*	(1,2,3)		
4358.427 *28*	3^-		
4399.2 *6*	3^-		
4409.170 *14*	$(1)^-$		
4436.7 *5*	$(1,2^+)$		
4552.636 *23*	$(3)^-$		
4561.8? *6*			
4572.6 *5*	(1,2,3)		
4649.4 *5*	2^+		
4824.4 *6*	(1,2,3)		
4866.10 *11*	1		
4884.02 *8*	$(1,2,3)^-$		
4892.6? *8*			
4904			Additional information 1.
5025.72 *21*	3^-		
5130.8 *7*	$(2,3)^+$		
5162.28 *10*	1		
5201.11 *31*	$(1,2,3)^-$		
5231.2? *10*			

Continued on next page (footnotes at end of table)

^{44}K β^- decay (22.13 min) 1976Co06 (continued)

^{44}Ca Levels (continued)

E(level)	J$^\pi$[†]	Comments
5325.0 *6*		
5367.5 *7*		
5512?		Additional information 2.
5560.8 *5*	3$^-$	

[†] From the Adopted Levels.

β^- radiations

E(decay)	E(level)	Iβ^-[†‡]	Log *ft*	Comments
(126.4 *7*)	5560.8	0.027 *18*	4.5 *+5−2*	av Eβ=34.71 *21*
(319.7 *9*)	5367.5	0.023 *19*	5.9 *+8−3*	av Eβ=98.80 *32*
(362.2 *8*)	5325.0	0.009 *5*	6.5 *+4−2*	av Eβ=114.04 *29*
(486.1 *6*)	5201.11	0.11 *6*	5.9 *+4−2*	av Eβ=160.21 *23*
(524.9 *5*)	5162.28	0.066 *11*	6.20 *7*	av Eβ=175.14 *19*
(556.4 *9*)	5130.8	0.029 *18*	6.7 *+4−2*	av Eβ=187.40 *35*
(661.5 *6*)	5025.72	0.0077 *24*	7.50 *14*	av Eβ=229.15 *20*
(794.6[#] *10*)	4892.6?	0.0035 *30*	8.1 *+9−3*	av Eβ=283.65 *37*
(803.2 *5*)	4884.02	0.69 *13*	5.86 *8*	av Eβ=287.22 *21*
(821.1 *5*)	4866.10	0.29 *5*	6.28 *7*	av Eβ=294.68 *21*
(862.8 *8*)	4824.4	0.08 *4*	6.9 *+3−2*	av Eβ=312.16 *34*
(1037.8 *7*)	4649.4	0.08 *5*	7.2 *+4−2*	av Eβ=386.86 *30*
(1114.6 *7*)	4572.6	0.19 *8*	7.0 *+3−2*	av Eβ=420.24 *31*
(1125.4[#] *8*)	4561.8?	0.047 *24*	7.6 *+3−2*	av Eβ=424.96 *35*
(1134.6 *5*)	4552.636	4.5 *7*	5.63 *7*	av Eβ=428.98 *22*
(1250.5 *7*)	4436.7	0.025 *13*	8.1 *+3−2*	av Eβ=480.06 *31*
(1278.0 *5*)	4409.170	7.2 *11*	5.63 *7*	av Eβ=492.26 *22*
(1288.0 *8*)	4399.2	0.035 *18*	7.9 *+3−2*	av Eβ=496.71 *36*
(1328.8 *5*)	4358.427	1.53 *26*	6.37 *7*	av Eβ=514.90 *22*
(1372.0 *5*)	4315.22	0.37 *8*	7.04 *9*	av Eβ=534.23 *22*
(1426.9 *6*)	4260.27	0.12 *5*	7.60 *18*	av Eβ=558.90 *27*
(1593.2 *8*)	4094.0	0.12 *5*	7.79 *18*	av Eβ=634.28 *36*
(1910.9 *5*)	3776.26	0.23 *6*	7.83 *11*	av Eβ=780.46 *23*
(2011.1 *5*)	3676.081	11.0 *17*	6.25 *7*	av Eβ=827.04 *23*
(2025.7 *5*)	3661.526	6.3 *10*	6.50 *7*	av Eβ=833.84 *23*
(2106.8 *8*)	3580.4	0.041 *24*	9.9[1u] *+4−2*	av Eβ=892.09 *37*
(2329.9[#] *6*)	3357.27	<0.12	>8.5	av Eβ=976.45 *28*
(2379.3 *5*)	3307.864	29 *4*	6.14 *6*	av Eβ=999.74 *24*
(2385.9 *5*)	3301.26	0.21 *10*	8.3 *+3−2*	av Eβ=1002.85 *24*
(2643.0 *5*)	3044.243	0.12 *9*	10.02[1u] *33*	av Eβ=1141.76 *23*
(3404.1 *5*)	2283.113	0.53 *21*	10.05[1u] *17*	av Eβ=1501.99 *24*
(3803.7 *5*)	1883.515	1.53 *27*	9.89[1u] *8*	av Eβ=1692.95 *24*
(4530.2 *5*)	1157.0183	1.6 *7*	8.6 *+3−2*	av Eβ=2033.35 *24*
(5687.2 *5*)	0.0	34 *10*	9.66[1u] *13*	av Eβ=2602.44 *24*
				Iβ^-: value adopted from 1970Le05.

[†] From intensity imbalance at each level for excited levels.
[‡] Absolute intensity per 100 decays.
[#] Existence of this branch is questionable.

^{44}K β^- decay (22.13 min) 1976Co06 (continued)

$\gamma(^{44}Ca)$

Iγ normalization: From ΣI(γ to g.s.)=100−Iβ(g.s.), with Iβ(g.s.)=34 *10* from 1970Le05.

E_γ †	I_γ †@	E_i(level)	J_i^π	E_f	J_f^π	Mult.#	δ#	α&	Comments
x174.35 *25*	1.0 *2*								
x209.98 *25*	0.3 *2*								
263.53 *6*	1.9 *5*	3307.864	3^-	3044.243	4^+				
353.67 *25*	0.3 *2*	3661.526	1^-	3307.864	3^-				
368.207 *14*	38.8 *7*	3676.081	(2^+)	3307.864	3^-				
374.85 *10*	3.3 *8*	3676.081	(2^+)	3301.26	2^+				
403.86 *20*	1.1 *3*	3711.79	4^-	3307.864	3^-	(M1)		0.000450 *6*	α(K)=0.000411 *6*; α(L)=3.55×10^{-5} *5*; α(M)=4.21×10^{-6} *6* α(N)=2.382×10^{-7} *33*
x463.3 *4*	0.3 *3*								
646.5 *3*	1.5 *5*	4358.427	3^-	3711.79	4^-				
651.355 *9*	52 *2*	3307.864	3^-	2656.503	2^+				
682.34 *3*	1.3 *7*	4358.427	3^-	3676.081	(2^+)				E_γ,I_γ: other: 682.2 *6* with Iγ=9.4 *19* (1973In02). Additional information 5.
696.9[a]	≤0.1	4358.427	3^-	3661.526	1^-				
726.490 *16*	65 *2*	1883.515	0^+	1157.0183	2^+	E2		0.0002139 *30*	α(K)=0.0001950 *27*; α(L)=1.680×10^{-5} *24*; α(M)=1.994×10^{-6} *28* α(N)=1.125×10^{-7} *16*
733.0 *4*	2.8 *12*	4409.170	$(1)^-$	3676.081	(2^+)				
747.63 *3*	36 *2*	4409.170	$(1)^-$	3661.526	1^-				
761.10 *3*	2 *1*	3044.243	4^+	2283.113	4^+	M1+E2	−0.18 *8*	0.0001187 *28*	α(K)=0.0001082 *26*; α(L)=9.30×10^{-6} *22*; α(M)=1.105×10^{-6} *26* α(N)=6.27×10^{-8} *15*
x766.8 *5*	0.8 *7*								
772.98[a]	≤0.1	2656.503	2^+	1883.515	0^+				
876.53 *3*	29.8 *6*	4552.636	$(3)^-$	3676.081	(2^+)				
891.10 *12*	1.6 *6*	4552.636	$(3)^-$	3661.526	1^-				
x983.58 *15*	3 *1*								
1005.0 *9*	0.5	3661.526	1^-	2656.503	2^+				
1019.55 *7*	14.5 *6*	3676.081	(2^+)	2656.503	2^+				E_γ,I_γ: other: 1020.0 *4* with Iγ=17.7 *9* (1973In02).
1024.738 *17*	115 *2*	3307.864	3^-	2283.113	4^+				
1050.60 *10*	9.6 *14*	4358.427	3^-	3307.864	3^-				
1074.1 *4*	1.5 *9*	3357.27	$(2^+,3,4^+)$	2283.113	4^+				
1101.3 *5*	0.2 *2*	4409.170	$(1)^-$	3307.864	3^-				
x1106.26 *25*	1.7 *5*								
1107.98 *10*	11.5 *8*	4409.170	$(1)^-$	3301.26	2^+				
1119.7 *4*	0.3 *2*	3776.26	2^-	2656.503	2^+				

$^{44}_{20}Ca_{24}$-3

^{44}K β^- decay (22.13 min) 1976Co06 (continued)

$\gamma(^{44}Ca)$ (continued)

E_γ[†]	I_γ[†@]	E_i(level)	J_i^π	E_f	J_f^π	Mult.[#]	δ[#]	α[&]	Comments
1126.076 *10*	131 *2*	2283.113	4^+	1157.0183	2^+	E2		7.12×10^{-5} *10*	α(K)=6.31×10^{-5} *9*; α(L)=5.42×10^{-6} *8*; α(M)=6.44×10^{-7} *9* α(N)=3.65×10^{-8} *5*; α(IPF)=2.000×10^{-6} *28*
1157.002 *3*	1000 *1*	1157.0183	2^+	0.0	0^+	E2		6.92×10^{-5} *10*	α(K)=5.93×10^{-5} *8*; α(L)=5.09×10^{-6} *7*; α(M)=6.05×10^{-7} *8* α(N)=3.43×10^{-8} *5*; α(IPF)=4.15×10^{-6} *6*
1195.4	0.8 *7*	4552.636	$(3)^-$	3357.27	$(2^+,3,4^+)$				
[x]1217.3[‡] *4*	1.0[‡] *2*								
1222.50 *8*	8.3 *8*	4884.02	$(1,2,3)^-$	3661.526	1^-				E_γ,I_γ: other: 1222.3 *4* with Iγ=5.6 *11* (1973In02).
1244.75 *5*	14.3 *5*	4552.636	$(3)^-$	3307.864	3^-				E_γ,I_γ: other: 1244.6 *5* with Iγ=19.5 *10* (1973In02).
[x]1272.8 *4*	1.4 *13*								
1285.0[a] *10*	≤0.3	4866.10	1	3580.4	0^+				
1363.7 *8*	0.2 *2*	5025.72	3^-	3661.526	1^-				
[x]1377.6 *5*	2 *1*								
[x]1427.5 *4*	1.9 *9*								
1428.7 *4*	0.4 *2*	3711.79	4^-	2283.113	4^+				
1499.45 *4*	135 *5*	2656.503	2^+	1157.0183	2^+	M1+E2	−0.123 *17*	9.68×10^{-5} *14*	α(K)=2.93×10^{-5} *4*; α(L)=2.508×10^{-6} *35*; α(M)=2.98×10^{-7} *4* α(N)=1.695×10^{-8} *24*; α(IPF)=6.47×10^{-5} *9*
1525.0		5201.11	$(1,2,3)^-$	3676.081	(2^+)				E_γ,I_γ: obscured by an impurity.
1575.9 *3*	3.0 *9*	4884.02	$(1,2,3)^-$	3307.864	3^-				
[x]1625.0 *7*	0.6 *4*								
[x]1634.52 *11*	4.0 *9*								Placed by 1973In02 from a level at 5309, but not seen in 1976Co06.
1658.69 *18*	3.7 *9*	4315.22	(1,2,3)	2656.503	2^+				E_γ: other: 1658.3 *4* with Iγ=2.1 *4* unplaced in 1973In02.
1701.9 *3*	1.7 *7*	4358.427	3^-	2656.503	2^+				
1752.629 *10*	70 *1*	4409.170	$(1)^-$	2656.503	2^+				
1777.973 *20*	36.5 *8*	3661.526	1^-	1883.515	0^+	(E1)		0.000495 *7*	α(K)=1.367×10^{-5} *19*; α(L)=1.170×10^{-6} *16*; α(M)=1.389×10^{-7} *19* α(N)=7.90×10^{-9} *11*; α(IPF)=0.000480 *7* Additional information 4.
1810.4 *7*	1.2 *8*	4094.0	$(2^+,3,4^+)$	2283.113	4^+				
1884.5 *10*	0.4 *3*	5560.8	3^-	3676.081	(2^+)				E_γ,I_γ: other: 1880.2 *12* with I$\gamma\approx$1.5 (1973In02).
1887.21 *28*	2 *1*	3044.243	4^+	1157.0183	2^+	E2		0.000283 *4*	α(K)=2.157×10^{-5} *30*; α(L)=1.848×10^{-6} *26*; α(M)=2.195×10^{-7} *31* α(N)=1.248×10^{-8} *17*; α(IPF)=0.000259 *4*
1893.2 *4*	1.9 *9*	5201.11	$(1,2,3)^-$	3307.864	3^-				

$^{44}_{20}Ca_{24}$-4

$\gamma(^{44}Ca)$ (continued)

E_γ[†]	I_γ[†@]	E_i(level)	J_i^π	E_f	J_f^π	Mult.[#]	δ[#]	α[&]	Comments
1896.0 *9*	1.9 *14*	4552.636	$(3)^-$	2656.503	2^+				Additional information 6.
1916.0 *8*	2.3 *12*	4572.6	(1,2,3)	2656.503	2^+				
1923[a]	≤0.9	5231.2?		3307.864	3^-				
1976.9 *7*	0.9 *7*	4260.27	$(2^+,3)$	2283.113	4^+				
1992.4 *5*	1.2 *8*	4649.4	2^+	2656.503	2^+				
2144.23 *8*	12.9 *8*	3301.26	2^+	1157.0183	2^+				E_γ: other: 2146.5 *5* with Iγ=19.7 *10* from 1973In02 is discrepant.
2150.786 *17*	391 *8*	3307.864	3^-	1157.0183	2^+				E_γ: other: 2151.04 *26* with Iγ=394 *20* (1973In02).
2167.8 *6*	1.3 *7*	4824.4	(1,2,3)	2656.503	2^+				
2200.3	0.2 *2*	3357.27	$(2^+,3,4^+)$	1157.0183	2^+				
2268.5 *10*	0.5 *4*	4552.636	$(3)^-$	2283.113	4^+				
2280.8[a] *7*	≤0.5	5325.0		3044.243	4^+				E_γ,I$_\gamma$: possibly a contaminant from ^{88}Rb decay.
[x]2324.3	0.6 *4*								Placement 3581 to 1157 (table I of 1976Co06) is incorrect.
[x]2338.3 *6*	0.7 *4*								Placement 4771 to 1883 (table I of 1976Co06) is incorrect.
[x]2364.2[‡] *6*	4.2[‡] *9*								
2423.3 *6*	0.7 *4*	3580.4	0^+	1157.0183	2^+	(E2)		0.000535 *8*	α(K)=1.382×10^{-5} *19*; α(L)=1.183×10^{-6} *17*; α(M)=1.405×10^{-7} *20* α(N)=8.00×10^{-9} *11*; α(IPF)=0.000520 *7* Additional information 3.
[x]2497.3 *9*	0.6 *5*								
2504.39 *6*	11.2 *9*	3661.526	1^-	1157.0183	2^+				
2518.991 *18*	167 *3*	3676.081	(2^+)	1157.0183	2^+				E_γ,I$_\gamma$: other: 2519.3 *3* with Iγ=135 *7* (1973In02).
[x]2598.4 *6*	0.7 *5*								
2619.16 *12*	3.6 *7*	3776.26	2^-	1157.0183	2^+	(E1+M2)	−0.62 +*7*−*8*	0.00085 *4*	α(K)=1.06×10^{-5} *5*; α(L)=9.0×10^{-7} *4*; α(M)=1.07×10^{-7} *5* α(N)=6.11×10^{-9} *30*; α(IPF)=0.00084 *4*
2656.41 *3*	16.9 *8*	2656.503	2^+	0.0	0^+	E2		0.000643 *9*	α(K)=1.185×10^{-5} *17*; α(L)=1.014×10^{-6} *14*; α(M)=1.204×10^{-7} *17* α(N)=6.85×10^{-9} *10*; α(IPF)=0.000630 *9*
2668[a]	≤0.05	5325.0		2656.503	2^+				
2711	0.3 *3*	5367.5		2656.503	2^+				
[x]2740.4 *8*	0.11 *9*								
[x]2745.0 *10*	≤0.2								
2847.6 *7*	0.5 *3*	5130.8	$(2,3)^+$	2283.113	4^+				
[x]2909.4[‡a] *10*	≈0.3[‡]								
2937.8 *10*	0.8 *3*	4094.0	$(2^+,3,4^+)$	1157.0183	2^+				
[x]2973.0 *10*	0.3 *2*								
2982.47 *15*	2.2 *3*	4866.10	1	1883.515	0^+				

^{44}K β^- decay (22.13 min) 1976Co06 (continued)

$\gamma(^{44}Ca)$ (continued)

E_γ †	I_γ †@	E_i(level)	J_i^π	E_f	J_f^π	Mult.#	α&	Comments
x3067.0[a] 8	0.2 2							
3103.2 4	1.1 4	4260.27	(2+,3)	1157.0183	2+			
3158.07 20	2.6 4	4315.22	(1,2,3)	1157.0183	2+			
3201.27 7	12.1 9	4358.427	3−	1157.0183	2+			
x3217.3 6	0.5 3							Placement 4374 to 1157 (table I of 1976Co06) marked as questionable.
x3227.1 8	0.3 2							Placement 4384 to 1157 (table I of 1976Co06) marked as questionable.
3242.0 6	0.6 3	4399.2	3−	1157.0183	2+			
3252.07 13	2.7 4	4409.170	(1)−	1157.0183	2+			
3279.0 7	0.3 2	4436.7	(1,2+)	1157.0183	2+			
3301.21 14	5.5 9	3301.26	2+	0.0	0+	E2	0.000919 13	α(K)=8.37×10−6 12; α(L)=7.16×10−7 10; α(M)=8.50×10−8 12 α(N)=4.84×10−9 7; α(IPF)=0.000909 13 Eγ: other: 3300.8 8 with Iγ=4.6 9 unplaced in 1973In02; also a 3304.1 8 with Iγ=3.8 8 placed from 3304 level in 1973In02.
3307.7 5	0.3 1	3307.864	3−	0.0	0+	(E3)	0.000666 9	α(K)=1.161×10−5 16; α(L)=9.94×10−7 14; α(M)=1.181×10−7 17 α(N)=6.72×10−9 9; α(IPF)=0.000653 9
3395.51 4	28.7 8	4552.636	(3)−	1157.0183	2+			
3404.6 6	0.8 4	4561.8?		1157.0183	2+			
3415.5 7	1.0 4	4572.6	(1,2,3)	1157.0183	2+			
3661.363 11	105 2	3661.526	1−	0.0	0+	(E1)	1.55×10−3 2	α(K)=5.12×10−6 7; α(L)=4.37×10−7 6; α(M)=5.19×10−8 7 α(N)=2.96×10−9 4; α(IPF)=0.001545 22
3676.7 6	0.25 11	3676.081	(2+)	0.0	0+			Eγ,Iγ: other: 3674.9 4 with Iγ=2.8 6 (1973In02).
3708.90[a] 13	≤0.8	4866.10	1	1157.0183	2+			Eγ,Iγ: other: 3707.4 4 with Iγ=1.6 3 (1973In02).
3726.6 4	0.5 1	4884.02	(1,2,3)−	1157.0183	2+			
3747.1[a]	≤0.01	4904		1157.0183	2+			
x3755.2 9	0.14 9							
3868.56 22	1.1 3	5025.72	3−	1157.0183	2+			
x3967.8	0.11 9							
4005	0.02 2	5162.28	1	1157.0183	2+			
4044[a]	≤0.05	5201.11	(1,2,3)−	1157.0183	2+			
4074.0[a] 10	0.08 8	5231.2?		1157.0183	2+			
x4162.5[a] 8	0.09 8							
4167.8 6	0.16 8	5325.0		1157.0183	2+			
4210.1 10	0.09 8	5367.5		1157.0183	2+			
x4337.9[a] 8	0.09 8							
4355[a]	≤0.05	5512?		1157.0183	2+			
4403.6 6	0.06 4	5560.8	3−	1157.0183	2+			
4408.91 19	0.92 15	4409.170	(1)−	0.0	0+			Eγ,Iγ: other: 4408.5 8 with Iγ=1.70 34 (1973In02).
4437.0 7	0.12 8	4436.7	(1,2+)	0.0	0+			

$^{44}_{20}Ca_{24}$-6

^{44}K β^- decay (22.13 min) 1976Co06 (continued)

$\gamma(^{44}Ca)$ (continued)

E_γ †	I_γ †@	E_i(level)	J_i^π	E_f	J_f^π	Comments
[x]4471.5 *6*	0.11 *8*					
4651	0.14 *8*	4649.4	2^+	0.0	0^+	
4865.81 *15*	2.8 *1*	4866.10	1	0.0	0^+	
4892.3 *8*	0.06 *5*	4892.6?		0.0	0^+	
5025.4 *8*	0.03 *2*	5025.72	3^-	0.0	0^+	
5161.96 *10*	1.11 *7*	5162.28	1	0.0	0^+	E_γ,I_γ: other: 5157.0 *5* with Iγ=1.20 *24* (1973In02).
5231.0[a]	≤0.01	5231.2?		0.0	0^+	
5561.3[a] *10*	0.05 *4*	5560.8	3^-	0.0	0^+	

† From 1976Co06, unless otherwise noted. All quoted intensities are relative to Iγ=1000 for 1157γ. Values are also available in 1973In02 and are mostly in a good agreement with values in 1976Co06, but less complete and less precise. Discrepant values are given under comments.

‡ From 1973In02.

From the Adopted Gammas.

@ For absolute intensity per 100 decays, multiply by 0.058 *9*.

& 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.

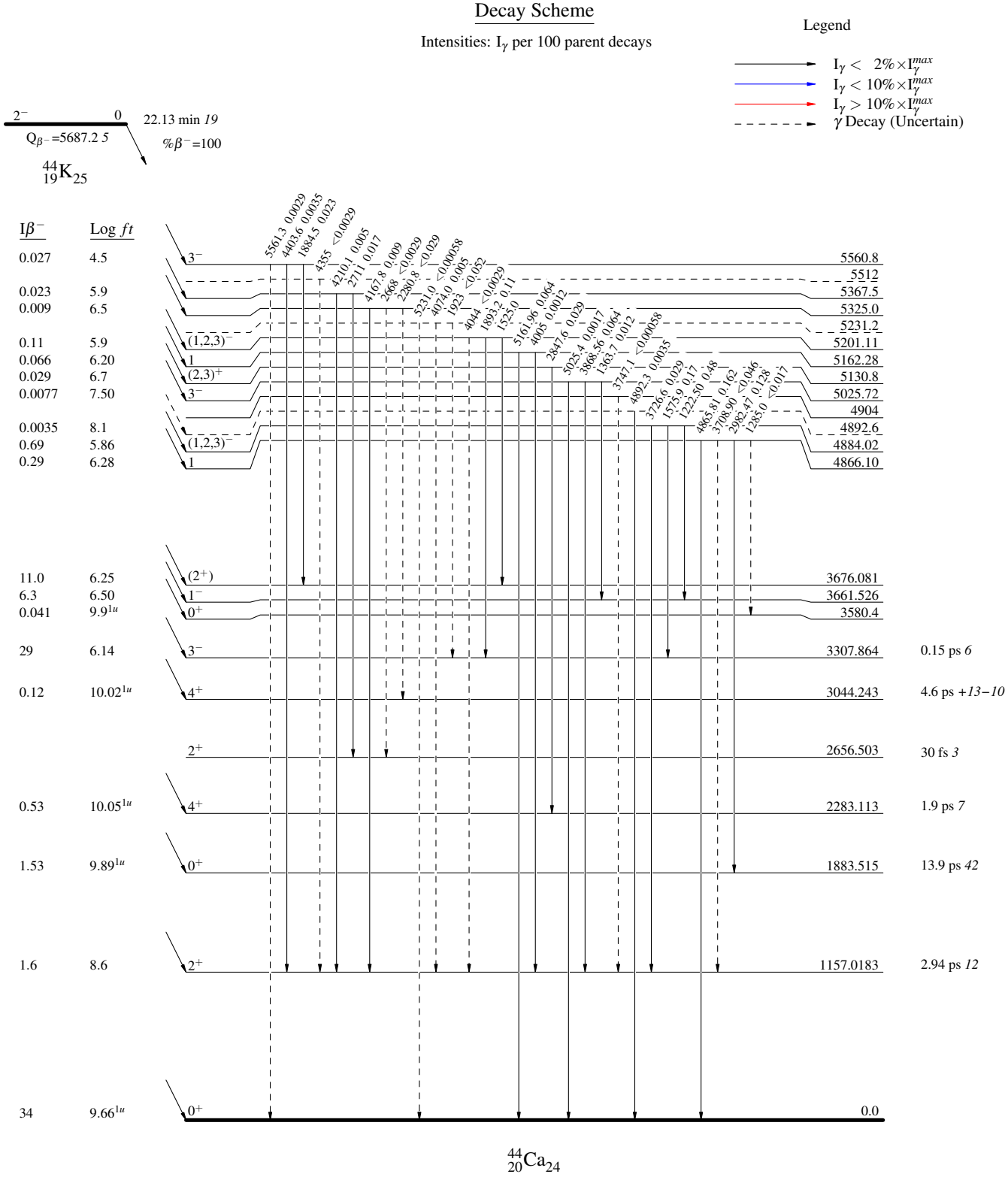
[x] γ ray not placed in level scheme.

$^{44}_{20}Ca_{24}$-7

^{44}K β^- decay (22.13 min) 1976Co06

Decay Scheme

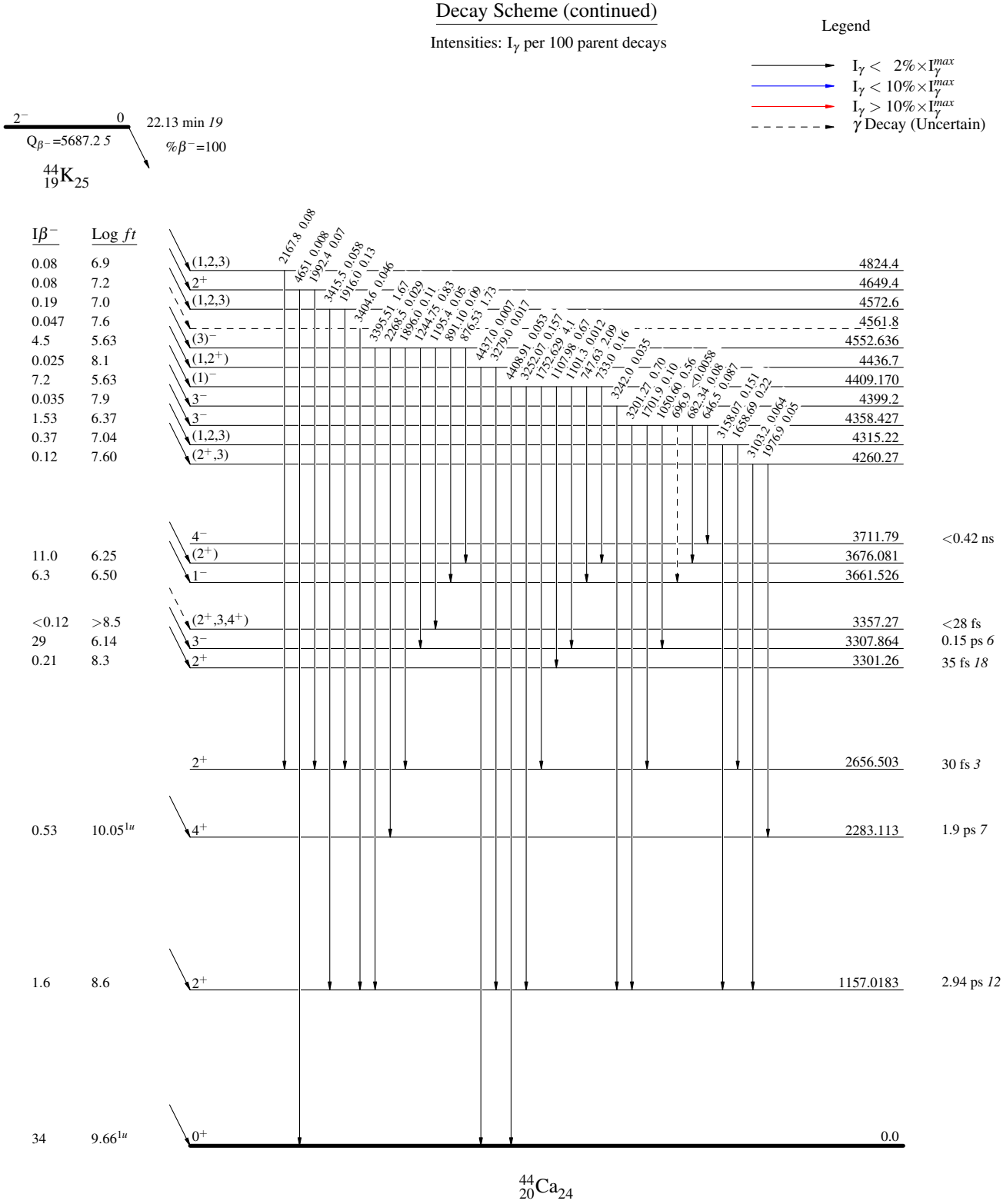
Intensities: I_γ per 100 parent decays



^{44}K β^- decay (22.13 min) 1976Co06

Decay Scheme (continued)

Intensities: I_γ per 100 parent decays



^{44}K β^- decay (22.13 min) 1976Co06

Decay Scheme (continued)

Intensities: I_γ per 100 parent decays