^{105}Mo β^- decay (36.3 s) 1989RuZU,1980TiZX

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	S. Lalkovski, J. Timar and Z. Elekes	NDS 161, 1 (2019)	1-Apr-2019

Parent: ^{105}Mo: E=0; J^π=(5/2$^-$); $T_{1/2}$=36.3 s *8*; Q(β^-)=4953 *35*; %β^- decay=100.0

1989RuZU: Facility: Julich DIDO Reactor; Detectors: Julich On-line Separator for Fission Products (JOSEF), one co-axial and two planar Ge detectors, one BaF_2 and one plastic scintillator NE111A; Source: produced in ^{235}U(n,F) reaction; Measured: Bρ, Eγ, Iγ, γ-γ(t), and β-γ-γ(t) coinc., ce, ce(K), $T_{1/2}$; Deduced: A/q, α(exp), α(K)exp, γ-ray Mult., ^{105}Tc level scheme, J^π; Also, from the same collaboration: 1989RuZX, 1989RuZY.

Other: 1987Gr18, 1980TiZX, 1977Ti02, 1976KaYO.

^{105}Tc Levels

E(level)†	J^π‡	$T_{1/2}$#	E(level)†	J^π‡
0	(3/2$^-$)		563.74 *16*	(5/2$^+$,7/2$^+$,9/2$^+$)
76.96 *6*	(5/2$^-$)	0.93 ns *4*	610.24 *15*	(3/2$^+$ to 9/2$^+$)
85.40 *7*	(5/2$^+$)	20.8 ns *6*	810.28 *15*	
147.56 *7*	(5/2$^-$)		868.83 *20*	(7/2$^+$,9/2$^+$)
149.57 *10*	(7/2$^+$)	1.09 ns *9*	880.71 *16*	
236.03 *6*	(7/2$^-$)		891.46 *20*	(9/2$^+$)
249.64 *7*	(3/2$^-$,5/2,7/2$^-$)		940.31 *14*	
278.56 *12*	(9/2$^+$)		1043.34 *11*	(5/2$^+$)
303.76 *7*	(3/2$^+$)	6.8 ns *10*	1172.11 *16*	(3/2$^+$,5/2,7/2$^+$)
322.15 *8*	(1/2$^+$)	9.9 ns *11*	1415.08 *18*	(1/2$^+$ to 7/2$^+$)
345.55 *8*	(7/2$^-$)		1476.10 *16*	(5/2$^+$)
440.61 *9*	(9/2$^-$)		1819.73 *17*	(5/2$^+$,7/2)
463.51 *9*	(3/2$^-$,5/2$^-$)		1890.87 *20*	(3/2$^-$,5/2$^-$,7/2$^-$)
491.40 *15*	(7/2$^+$)		2194.8 *3*	
523.50 *8*	(3/2$^-$,5/2,7/2$^-$)		2211.93 *25*	(5/2$^+$,7/2$^+$,9/2$^+$)
529.94 *11*	(5/2$^+$)	0.175 ns *6*	2766.25 *24*	(5/2$^-$,7/2$^-$)
558.02 *10*	(5/2$^+$,7/2$^+$,9/2$^+$)			

† From a least-squares fit to Eγ.
‡ From the Adopted Levels.
# From β-γ-γ(t) coinc. in 1989RuZU.

β^- radiations

E(decay)	E(level)	Iβ^-†	Log *ft*	Comments
(2.19×10^3 *4*)	2766.25	2.1 *5*	5.90 *11*	av Eβ=879 *17*
(2.74×10^3 *4*)	2211.93	0.98 *18*	6.64 *9*	av Eβ=1137 *17*
(2.76×10^3 *4*)	2194.8	0.57 *23*	6.88 *18*	av Eβ=1145 *17*
(3.06×10^3 *4*)	1890.87	3.5 *6*	6.29 *8*	av Eβ=1288 *17*
(3.13×10^3 *4*)	1819.73	3.3 *7*	6.35 *10*	av Eβ=1322 *17*
(3.48×10^3 *4*)	1476.10	1.4 *4*	6.92 *13*	av Eβ=1485 *17*
(3.54×10^3 *4*)	1415.08	2.0 *6*	6.80 *14*	av Eβ=1514 *17*
(3.78×10^3 *4*)	1172.11	1.3 *4*	7.11 *14*	av Eβ=1629 *17*
(3.91×10^3 *4*)	1043.34	2.8 *14*	6.84 *22*	av Eβ=1691 *17*
(4.01×10^3 *4*)	940.31	0.50 *24*	7.64 *21*	av Eβ=1740 *17*
(4.06×10^3 *4*)	891.46	0.20 *9*	8.06 *20*	av Eβ=1763 *17*
(4.07×10^3 *4*)	880.71	1.13 *21*	7.31 *9*	av Eβ=1768 *17*
(4.08×10^3 *4*)	868.83	0.57 *13*	7.62 *10*	av Eβ=1774 *17*
(4.14×10^3 *4*)	810.28	0.90 *17*	7.44 *9*	av Eβ=1802 *17*

Continued on next page (footnotes at end of table)

^{105}Mo β^- decay (36.3 s) 1989RuZU,1980TiZX (continued)

β^- radiations (continued)

E(decay)	E(level)	Iβ^-[†]	Log *ft*	Comments
(4.34×10^3 *4*)	610.24	1.4 *4*	7.34 *13*	av Eβ=1897 *17*
(4.39×10^3 *4*)	563.74	2.0 *4*	7.21 *9*	av Eβ=1920 *17*
(4.39×10^3 *4*)	558.02	2.2 *5*	7.17 *10*	av Eβ=1922 *17*
(4.42×10^3 *4*)	529.94	2.1 *5*	7.20 *11*	av Eβ=1936 *17*
(4.43×10^3 *4*)	523.50	6.4 *10*	6.72 *7*	av Eβ=1939 *17*
(4.46×10^3 *4*)	491.40	1.13 *22*	7.49 *9*	av Eβ=1954 *17*
(4.49×10^3 *4*)	463.51	8.1 *12*	6.64 *7*	av Eβ=1968 *17*
(4.51×10^3 *4*)	440.61	3.2 *8*	7.06 *11*	av Eβ=1978 *17*
(4.61×10^3 *4*)	345.55	7.1 *16*	6.75 *10*	av Eβ=2024 *17*
(4.63×10^3 *4*)	322.15	1.7 *6*	7.38 *16*	av Eβ=2035 *17*
(4.65×10^3 *4*)	303.76	1.7 *9*	7.39 *23*	av Eβ=2044 *17*
(4.67×10^3 *4*)	278.56	2.0 *4*	7.33 *9*	av Eβ=2056 *17*
(4.70×10^3 *4*)	249.64	7.0 *13*	6.80 *9*	av Eβ=2070 *17*
(4.72×10^3 *4*)	236.03	7.3 *19*	6.78 *12*	av Eβ=2076 *17*
(4.80×10^3 *4*)	149.57	3.6 *11*	7.13 *14*	av Eβ=2118 *17*
(4.81×10^3 *4*)	147.56	6.4 *19*	6.88 *13*	av Eβ=2119 *17*
(4.87×10^3 *4*)	85.40	8.5 *21*	6.78 *11*	av Eβ=2148 *17*
(4.88×10^3 *4*)	76.96	3 *3*	7.2 *5*	av Eβ=2152 *17*
(4.95×10^3 *4*)	0	4 *12*	7.1 *13*	av Eβ=2189 *17*

[†] Absolute intensity per 100 decays.

^{105}Mo β^- decay (36.3 s) 1989RuZU,1980TiZX (continued)

$\gamma(^{105}Tc)$

Iγ normalization: from $I_{\gamma+ce}(85.4\gamma)$=30.4 *40* in 1989RuZU.

E_γ †	I_γ †#	E_i(level)	J_i^π	E_f	J_f^π	Mult.‡	α@	Comments
18.4 *1*	≤1.6	322.15	(1/2$^+$)	303.76	(3/2$^+$)			
64.1 *2*	21.8 *16*	149.57	(7/2$^+$)	85.40	(5/2$^+$)	M1	0.986 *17*	α(K)=0.860 *15*; α(L)=0.1039 *18*; α(M)=0.0189 *4*; α(N+..)=0.00319 *6* α(N)=0.00299 *5*; α(O)=0.000195 *4* Mult.: α(K)exp=1.08 *24* (1989RuZU).
71.1 *2*	2.6 *4*	147.56	(5/2$^-$)	76.96	(5/2$^-$)	[M1]	0.732 *12*	α(K)=0.639 *11*; α(L)=0.0771 *13*; α(M)=0.01401 *23*; α(N+..)=0.00237 *4* α(N)=0.00222 *4*; α(O)=0.0001449 *24*
76.5 *1*	77 *6*	76.96	(5/2$^-$)	0	(3/2$^-$)	M1	0.594	α(K)=0.518 *8*; α(L)=0.0625 *9*; α(M)=0.01136 *17*; α(N+..)=0.00192 *3* α(N)=0.00180 *3*; α(O)=0.0001176 *17* Mult.: α(K)exp=0.68 *17* (1989RuZU).
85.4 *1*	100 *5*	85.40	(5/2$^+$)	0	(3/2$^-$)	E1	0.209	α(K)=0.183 *3*; α(L)=0.0216 *4*; α(M)=0.00388 *6*; α(N+..)=0.000639 *10* α(N)=0.000604 *9*; α(O)=3.49×10^{-5} *5* Mult.: α(K)exp=0.22 *6* (1989RuZU).
89.0 *1*	6.0 *18*	236.03	(7/2$^-$)	147.56	(5/2$^-$)	[M1]	0.387	α(K)=0.338 *5*; α(L)=0.0406 *6*; α(M)=0.00738 *11*; α(N+..)=0.001247 *18* α(N)=0.001171 *17*; α(O)=7.66×10^{-5} *11*
95.1 *2*	0.5 *3*	440.61	(9/2$^-$)	345.55	(7/2$^-$)	[M1]	0.321	α(K)=0.280 *5*; α(L)=0.0337 *6*; α(M)=0.00612 *10*; α(N+..)=0.001034 *16* α(N)=0.000971 *15*; α(O)=6.36×10^{-5} *10*
101.6 *2*	2.8 *8*	249.64	(3/2$^-$,5/2,7/2$^-$)	147.56	(5/2$^-$)			
108.6 *2*	2.1 *8*	345.55	(7/2$^-$)	236.03	(7/2$^-$)	[M1]	0.222	α(K)=0.194 *3*; α(L)=0.0232 *4*; α(M)=0.00421 *7*; α(N+..)=0.000712 *11* α(N)=0.000668 *10*; α(O)=4.39×10^{-5} *7*
118.0 *2*	0.8 *4*	463.51	(3/2$^-$,5/2$^-$)	345.55	(7/2$^-$)			
129.0 *1*	9.6 *10*	278.56	(9/2$^+$)	149.57	(7/2$^+$)	[M1]	0.1378	α(K)=0.1204 *17*; α(L)=0.01435 *21*; α(M)=0.00261 *4*; α(N+..)=0.000441 *7* α(N)=0.000414 *6*; α(O)=2.73×10^{-5} *4*
147.8 *1*	59 *4*	147.56	(5/2$^-$)	0	(3/2$^-$)	[M1]	0.0951	α(K)=0.0832 *12*; α(L)=0.00987 *14*; α(M)=0.00179 *3*; α(N+..)=0.000304 *5* α(N)=0.000285 *4*; α(O)=1.88×10^{-5} *3*
156.0 *2*	0.7 *3*	303.76	(3/2$^+$)	147.56	(5/2$^-$)	[E1]	0.0366	α(K)=0.0321 *5*; α(L)=0.00370 *6*; α(M)=0.000667 *10*; α(N+..)=0.0001113 *17* α(N)=0.0001048 *16*; α(O)=6.48×10^{-6} *10*
159.029 *12*	38 *3*	236.03	(7/2$^-$)	76.96	(5/2$^-$)	[M1]	0.0781	α(K)=0.0683 *10*; α(L)=0.00808 *12*; α(M)=0.001468 *21*; α(N+..)=0.000249 *4* α(N)=0.000233 *4*; α(O)=1.542×10^{-5} *22* α(N)=0.000227 *4*; α(O)=1.504×10^{-5} *22* E_γ: from bent crystal measurement in 1979Bo26; Others: 160.5 *1* in 1989RuZU.
173.0 *1*	9.0 *11*	249.64	(3/2$^-$,5/2,7/2$^-$)	76.96	(5/2$^-$)			
178.2 *2*	1.8 *8*	523.50	(3/2$^-$,5/2,7/2$^-$)	345.55	(7/2$^-$)			
187.7 *2*	3.2 *5*	491.40	(7/2$^+$)	303.76	(3/2$^+$)	[E2]	0.1302	α(K)=0.1104 *16*; α(L)=0.01636 *24*; α(M)=0.00299 *5*; α(N+..)=0.000478

$^{105}_{43}Tc_{62}$-3

^{105}Mo β^- decay (36.3 s) 1989RuZU,1980TiZX (continued)

$\gamma(^{105}Tc)$ (continued)

E_γ †	I_γ †#	E_i(level)	J_i^π	E_f	J_f^π	Mult.‡	α@	Comments
								7 α(N)=0.000456 *7*; α(O)=2.16×10^{-5} *4*
193.2 *2*	0.5 *3*	278.56	(9/2$^+$)	85.40	(5/2$^+$)	[E2]	0.1175	α(K)=0.0997 *15*; α(L)=0.01465 *22*; α(M)=0.00267 *4*; α(N+..)=0.000428 *7* α(N)=0.000408 *6*; α(O)=1.96×10^{-5} *3*
197.9 *1*	14 *4*	345.55	(7/2$^-$)	147.56	(5/2$^-$)	[M1]	0.0436	α(K)=0.0381 *6*; α(L)=0.00449 *7*; α(M)=0.000814 *12*; α(N+..)=0.0001381 *20* α(N)=0.0001295 *19*; α(O)=8.59×10^{-6} *12*
203.9 *1*	6.8 *12*	440.61	(9/2$^-$)	236.03	(7/2$^-$)	[M1]	0.0403	α(K)=0.0353 *5*; α(L)=0.00414 *6*; α(M)=0.000752 *11*; α(N+..)=0.0001275 *18* α(N)=0.0001196 *17*; α(O)=7.94×10^{-6} *12*
207.8 *2*	4.7 *9*	529.94	(5/2$^+$)	322.15	(1/2$^+$)	[E2]	0.0908	α(K)=0.0773 *12*; α(L)=0.01110 *16*; α(M)=0.00203 *3*; α(N+..)=0.000326 *5* α(N)=0.000310 *5*; α(O)=1.534×10^{-5} *22*
213.0 *2*	1.5 *9*	558.02	(5/2$^+$,7/2$^+$,9/2$^+$)	345.55	(7/2$^-$)			
214.0 *1*	16.2 *14*	463.51	(3/2$^-$,5/2$^-$)	249.64	(3/2$^-$,5/2,7/2$^-$)			
218.4 *1*	15.1 *16*	303.76	(3/2$^+$)	85.40	(5/2$^+$)	[M1]	0.0336	α(K)=0.0294 *5*; α(L)=0.00345 *5*; α(M)=0.000627 *9*; α(N+..)=0.0001063 *15* α(N)=9.97×10^{-5} *14*; α(O)=6.63×10^{-6} *10*
226.3 *2*	2.6 *6*	529.94	(5/2$^+$)	303.76	(3/2$^+$)	[M1]	0.0307	α(K)=0.0268 *4*; α(L)=0.00315 *5*; α(M)=0.000571 *9*; α(N+..)=9.68×10^{-5} *14* α(N)=9.08×10^{-5} *13*; α(O)=6.04×10^{-6} *9*
226.7 *2*	4.6 *11*	463.51	(3/2$^-$,5/2$^-$)	236.03	(7/2$^-$)			
236.9 *5*	8 *4*	236.03	(7/2$^-$)	0	(3/2$^-$)	[E2]	0.0573 *9*	α(K)=0.0491 *8*; α(L)=0.00679 *11*; α(M)=0.001238 *20*; α(N+..)=0.000200 *4* α(N)=0.000191 *3*; α(O)=9.87×10^{-6} *16*
249.7 *1*	37 *3*	249.64	(3/2$^-$,5/2,7/2$^-$)	0	(3/2$^-$)			
269.1 *1*	17.4 *22*	345.55	(7/2$^-$)	76.96	(5/2$^-$)	[M1]	0.0196	α(K)=0.01718 *25*; α(L)=0.00200 *3*; α(M)=0.000363 *5*; α(N+..)=6.16×10^{-5} *9* α(N)=5.78×10^{-5} *9*; α(O)=3.86×10^{-6} *6*
274.3 *2*	4.6 *6*	523.50	(3/2$^-$,5/2,7/2$^-$)	249.64	(3/2$^-$,5/2,7/2$^-$)			
286.7 *1*	7.9 *12*	523.50	(3/2$^-$,5/2,7/2$^-$)	236.03	(7/2$^-$)			
303.8 *1*	8.0 *18*	303.76	(3/2$^+$)	0	(3/2$^-$)	[E1]	0.00565 *8*	α=0.00565 *8*; α(K)=0.00496 *7*; α(L)=0.000565 *8*; α(M)=0.0001019 *15*; α(N+..)=1.716×10^{-5} *24* α(N)=1.612×10^{-5} *23*; α(O)=1.043×10^{-6} *15*
315.8 *2*	3.7 *11*	463.51	(3/2$^-$,5/2$^-$)	147.56	(5/2$^-$)			
321.7 *1*	4.7 *9*	558.02	(5/2$^+$,7/2$^+$,9/2$^+$)	236.03	(7/2$^-$)			
322.2 *1*	13.6 *17*	322.15	(1/2$^+$)	0	(3/2$^-$)	[E1]	0.00482 *7*	α=0.00482 *7*; α(K)=0.00424 *6*; α(L)=0.000482 *7*; α(M)=8.70×10^{-5} *13*; α(N+..)=1.466×10^{-5} *21* α(N)=1.377×10^{-5} *20*; α(O)=8.93×10^{-7} *13*
341.8 *2*	1.2 *3*	491.40	(7/2$^+$)	149.57	(7/2$^+$)	[M1]	0.01072	α(K)=0.00940 *14*; α(L)=0.001088 *16*; α(M)=0.000197 *3*;

$^{105}_{43}Tc_{62}$-4

^{105}Mo β^- decay (36.3 s) 1989RuZU,1980TiZX (continued)

$\gamma(^{105}Tc)$ (continued)

E_γ[†]	I_γ[†#]	E_i(level)	J_i^π	E_f	J_f^π	Mult.[‡]	α[@]	Comments
								α(N+..)=3.35×10^{-5} *5* α(N)=3.14×10^{-5} *5*; α(O)=2.11×10^{-6} *3*
345.8 *3*	1.0 *4*	345.55	(7/2$^-$)	0	(3/2$^-$)	[E2]	0.01591	α(K)=0.01377 *20*; α(L)=0.00176 *3*; α(M)=0.000320 *5*; α(N+..)=5.28×10^{-5} *8* α(N)=4.99×10^{-5} *8*; α(O)=2.87×10^{-6} *4*
357.1 *2*	3.1 *5*	880.71		523.50	(3/2$^-$,5/2,7/2$^-$)			
361.5 *2*	0.5 *3*	891.46	(9/2$^+$)	529.94	(5/2$^+$)	[E2]	0.01377	α(K)=0.01193 *17*; α(L)=0.001516 *22*; α(M)=0.000275 *4*; α(N+..)=4.55×10^{-5} *7* α(N)=4.30×10^{-5} *6*; α(O)=2.49×10^{-6} *4*
364.3 *1*	10.0 *15*	440.61	(9/2$^-$)	76.96	(5/2$^-$)	[E2]	0.01343	α(K)=0.01164 *17*; α(L)=0.001477 *21*; α(M)=0.000268 *4*; α(N+..)=4.43×10^{-5} *7* α(N)=4.19×10^{-5} *6*; α(O)=2.43×10^{-6} *4*
376.0 *2*	2.5 *8*	523.50	(3/2$^-$,5/2,7/2$^-$)	147.56	(5/2$^-$)			
380.4 *2*	2.0 *6*	529.94	(5/2$^+$)	149.57	(7/2$^+$)	[M1]	0.00823 *12*	α=0.00823 *12*; α(K)=0.00722 *11*; α(L)=0.000832 *12*; α(M)=0.0001508 *22*; α(N+..)=2.56×10^{-5} α(N)=2.40×10^{-5} *4*; α(O)=1.614×10^{-6} *23*
387.0 *2*	8.3 *13*	463.51	(3/2$^-$,5/2$^-$)	76.96	(5/2$^-$)			
400.1 *3*	0.3 *1*	891.46	(9/2$^+$)	491.40	(7/2$^+$)	[M1]	0.00727 *11*	α=0.00727 *11*; α(K)=0.00638 *9*; α(L)=0.000734 *11*; α(M)=0.0001330 *19*; α(N+..)=2.26×10^{-5} *4* α(N)=2.12×10^{-5} *3*; α(O)=1.425×10^{-6} *21*
411.1 *2*	2.4 *7*	558.02	(5/2$^+$,7/2$^+$,9/2$^+$)	147.56	(5/2$^-$)			
414.2 *2*	6.4 *9*	563.74	(5/2$^+$,7/2$^+$,9/2$^+$)	149.57	(7/2$^+$)			
417.3 *2*	1.4 *4*	880.71		463.51	(3/2$^-$,5/2$^-$)			
444.5 *2*	1.3 *2*	529.94	(5/2$^+$)	85.40	(5/2$^+$)	[M1]	0.00563 *8*	α=0.00563 *8*; α(K)=0.00494 *7*; α(L)=0.000567 *8*; α(M)=0.0001027 *15*; α(N+..)=1.746×10^{-5} *25* α(N)=1.636×10^{-5} *23*; α(O)=1.103×10^{-6} *16*
447.1 *1*	12.0 *18*	523.50	(3/2$^-$,5/2,7/2$^-$)	76.96	(5/2$^-$)			
460.7 *2*	1.6 *3*	610.24	(3/2$^+$ to 9/2$^+$)	149.57	(7/2$^+$)			
478.3 *2*	1.6 *3*	563.74	(5/2$^+$,7/2$^+$,9/2$^+$)	85.40	(5/2$^+$)			
524.9 *2*	9.0 *12*	610.24	(3/2$^+$ to 9/2$^+$)	85.40	(5/2$^+$)			
531.8 *2*	1.1 *3*	810.28		278.56	(9/2$^+$)			
590.4 *3*	0.3 *1*	868.83	(7/2$^+$,9/2$^+$)	278.56	(9/2$^+$)			
660.6 *2*	1.3 *3*	810.28		149.57	(7/2$^+$)			
697.7 *3*	0.6 *4*	1043.34	(5/2$^+$)	345.55	(7/2$^-$)			
703.3 *3*	0.7 *3*	940.31		236.03	(7/2$^-$)			
719.2 *2*	2.0 *4*	868.83	(7/2$^+$,9/2$^+$)	149.57	(7/2$^+$)			
724.9 *2*	1.2 *3*	810.28		85.40	(5/2$^+$)			
776.1 *4*	3.5 *16*	1819.73	(5/2$^+$,7/2)	1043.34	(5/2$^+$)			
792.7 *2*	1.2 *4*	940.31		147.56	(5/2$^-$)			
863.8 *2*	0.9 *3*	940.31		76.96	(5/2$^-$)			
868.4 *2*	3.2 *11*	1172.11	(3/2$^+$,5/2,7/2$^+$)	303.76	(3/2$^+$)			
885.4 *3*	0.4 *3*	1415.08	(1/2$^+$ to 7/2$^+$)	529.94	(5/2$^+$)			

$^{105}_{43}Tc_{62}$-5

^{105}Mo β^- decay (36.3 s) 1989RuZU,1980TiZX (continued)

$\gamma(^{105}Tc)$ (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
893.8 *3*	1.2 *3*	1043.34	$(5/2^+)$	149.57	$(7/2^+)$	1474.2 *3*	2.3 *12*	1819.73	$(5/2^+,7/2)$	345.55	$(7/2^-)$
895.7 *2*	1.7 *6*	1043.34	$(5/2^+)$	147.56	$(5/2^-)$	1541.1 *3*	0.8 *3*	1819.73	$(5/2^+,7/2)$	278.56	$(9/2^+)$
946.2 *2*	1.7 *7*	1476.10	$(5/2^+)$	529.94	$(5/2^+)$	1672.1 *5*	1.8 *6*	1819.73	$(5/2^+,7/2)$	147.56	$(5/2^-)$
957.7 *2*	1.9 *3*	1043.34	$(5/2^+)$	85.40	$(5/2^+)$	1805.4 *2*	9.4 *13*	1890.87	$(3/2^-,5/2^-,7/2^-)$	85.40	$(5/2^+)$
966.6 *2*	2.2 *5*	1043.34	$(5/2^+)$	76.96	$(5/2^-)$	1814.2 *5*	4.6 *9*	1890.87	$(3/2^-,5/2^-,7/2^-)$	76.96	$(5/2^-)$
1022.4 *3*	0.9 *3*	1172.11	$(3/2^+,5/2,7/2^+)$	149.57	$(7/2^+)$	1933.3 *4*	1.3 *3*	2211.93	$(5/2^+,7/2^+,9/2^+)$	278.56	$(9/2^+)$
1043.4 *3*	7 *5*	1043.34	$(5/2^+)$	0	$(3/2^-)$	2047.4 *4*	1.5 *5*	2194.8		147.56	$(5/2^-)$
1086.7 *3*	0.9 *2*	1172.11	$(3/2^+,5/2,7/2^+)$	85.40	$(5/2^+)$	2062.4 *4*	1.3 *3*	2211.93	$(5/2^+,7/2^+,9/2^+)$	149.57	$(7/2^+)$
1111.2 *2*	7.4 *21*	1415.08	$(1/2^+$ to $7/2^+)$	303.76	$(3/2^+)$	2126.5 *4*	1.3 *3*	2211.93	$(5/2^+,7/2^+,9/2^+)$	85.40	$(5/2^+)$
1154.4 *3*	2.6 *7*	1476.10	$(5/2^+)$	322.15	$(1/2^+)$	2325.4 *4*	5.0 *13*	2766.25	$(5/2^-,7/2^-)$	440.61	$(9/2^-)$
1209.7 *3*	4.9 *7*	1819.73	$(5/2^+,7/2)$	610.24	$(3/2^+$ to $9/2^+)$	2618.5 *4*	2.3 *8*	2766.25	$(5/2^-,7/2^-)$	147.56	$(5/2^-)$
1239.5 *3*	1.2 *5*	1476.10	$(5/2^+)$	236.03	$(7/2^-)$	2681.2 *4*	0.9 *2*	2766.25	$(5/2^-,7/2^-)$	85.40	$(5/2^+)$
1254.4 *3*	0.8 *7*	2194.8		940.31							

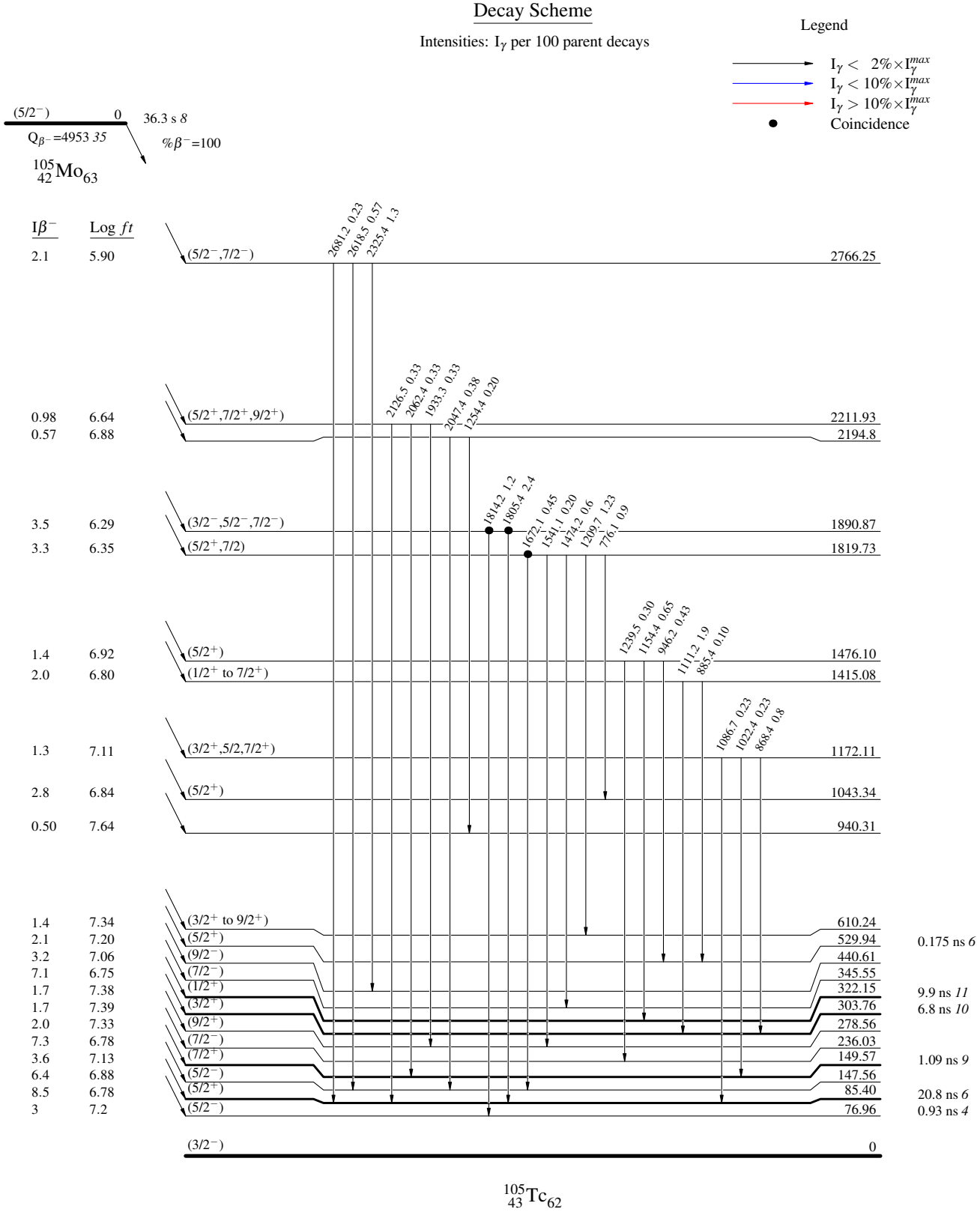
† From 1989RuZU.
‡ From 1989RuZU, based on α(K)exp.
# For absolute intensity per 100 decays, multiply by 0.25 *3*.
@ Total theoretical internal conversion coefficients, calculated using the BrIcc code (2008Ki07) with Frozen orbital approximation based on γ-ray energies, assigned multipolarities, and mixing ratios, unless otherwise specified.

$^{105}_{43}Tc_{62}$-6

^{105}Mo β^- decay (36.3 s) 1989RuZU,1980TiZX

Decay Scheme

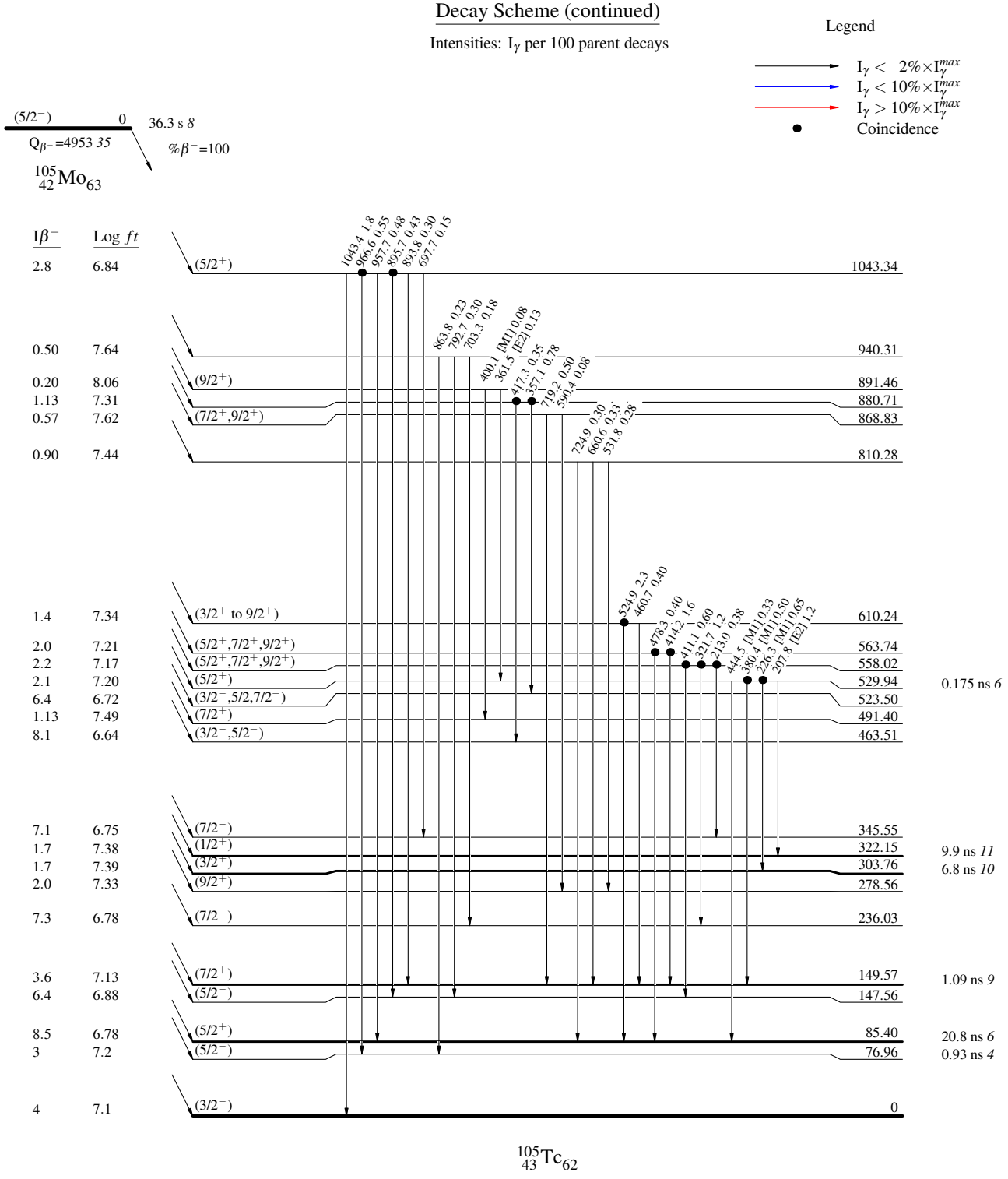
Intensities: I_γ per 100 parent decays



^{105}Mo β^- decay (36.3 s) 1989RuZU,1980TiZX

Decay Scheme (continued)

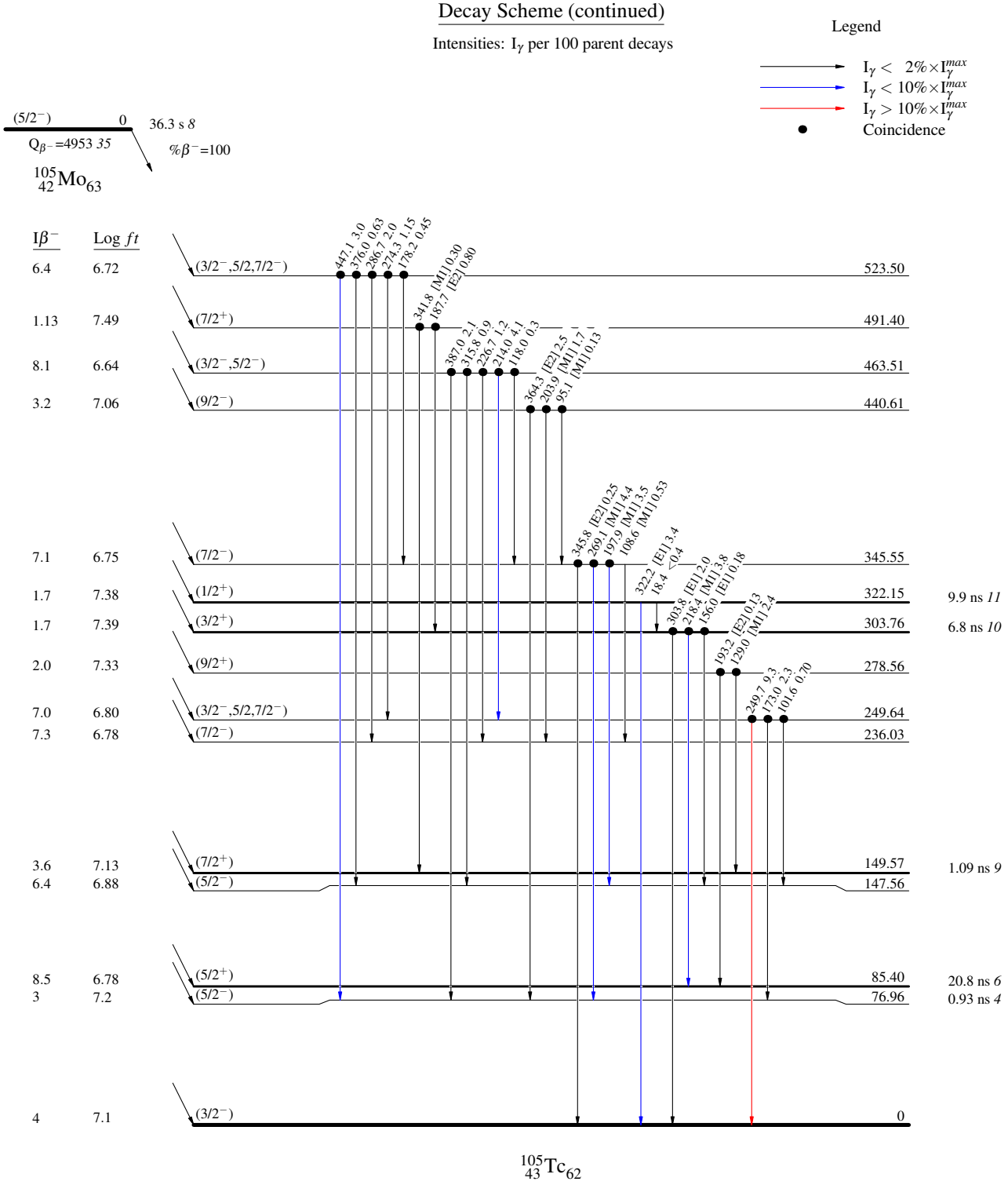
Intensities: I_γ per 100 parent decays



^{105}Mo β^- decay (36.3 s) 1989RuZU,1980TiZX

Decay Scheme (continued)

Intensities: I_γ per 100 parent decays



^{105}Mo β^- decay (36.3 s) 1989RuZU,1980TiZX

Decay Scheme (continued)

Intensities: I_γ per 100 parent decays