

¹⁶²Tb β⁻ decay 1977Ka08

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	N. Nica	NDS 195,1 (2024)	19-Sep-2023

Parent: ¹⁶²Tb: E=0; J^π=1⁻; T_{1/2}=7.74 min 9; Q(β⁻)=2301.6 22; %β⁻ decay=100

¹⁶²Tb-J^π: [Additional information 1.](#)

¹⁶²Tb-T_{1/2}: [Additional information 2.](#)

¹⁶²Tb-Q(β⁻): From [2021Wa16](#).

[Additional information 3.](#)

Data and level scheme are based on [1977Ka08](#), unless otherwise noted. For [1977Ka08](#), source produced by ¹⁶³Dy(γ,p) on enriched (93.07%) target. Report T_{1/2}, E_γ and I_γ for 47 γ's (Ge detectors), γγ coincidences (NaI and Ge detectors), and βγ coincidences (plastic detector).

Other ¹⁶²Tb decay studies: [1965Sc24](#); [1966Fu08](#); [1966Sc24](#); [1967Gu03](#); [1969Cl11](#); and [1968Ka10](#).

¹⁶²Tb has been produced by the ¹⁶³Dy(γ,p), ¹⁶²Dy(n,p), and ¹⁶⁵Ho(n,α) reactions.

¹⁶²Dy Levels

The consistency of the scheme is supported by the fact that the sum of the energies of the radiations is 2290 100 which agrees with the Q value of 2301.6 22.

[Additional information 4.](#)

E(level) [†]	J ^π [‡]	T _{1/2} [#]	Comments
0.0 [@]	0 ⁺	stable	
80.66 [@] 5	2 ⁺		
265.64 [@] 7	4 ⁺		
888.19 ^{&} 5	2 ⁺		
962.97 ^{&} 6	3 ⁺		
1148.24 ^a 6	2 ⁻	0.21 ns 4	T _{1/2} : from 1968Se02 , βγ delayed coincidences.
1210.02 ^a 23	3 ⁻		
1275.78 ^b 24	1 ⁻		
1357.80 ^b 29	3 ⁻		
1453.6 ^c 4	2 ⁺		
1691.41 ^d 23	2 ⁻		
1745.48 ^e 22	1 ⁺		
1782.63 ^e 20	2 ⁺		
1982.4 4	1,2 ⁺		
1999.2 5	2 ⁺		
2128.6 4	1 ⁻		
2163.3 4	1,2,3		
2371.27? 32	1 ⁻ ,2,3		E(level): this level which is bound in 1977Ka08 (Q(β ⁻)=2530 80) is getting unbound for the actual adopted value (Q(β ⁻)=2301.6 22 (2021Wa16)).

[†] From least-squares fit to the γ energies.

[‡] J^π and band assignments are from ¹⁶²Dy Adopted Levels. Arguments are given there for each assignment.

[#] Data given here for excited states are only for experiments from ¹⁶²Tb β⁻ decay; see ¹⁶²Dy Adopted Levels for summary of all level half-life measurements.

[@] Band(A): K^π=0⁺ ground-state band.

[&] Band(B): K^π=2⁺ γ-vibrational band.

^a Band(C): K^π=2⁻ octupole-vibrational band. Dominant configuration=(π 7/2[523])-(π 3/2[411]), from log ft in β⁻ decay.

^b Band(D): K^π=0⁻ octupole band.

¹⁶²Tb β⁻ decay **1977Ka08 (continued)**

¹⁶²Dy Levels (continued)

- ^c Band(E): K^π=0⁺ band.
- ^d Band(F): K^π=1⁻ octupole-vibrational band.
- ^e Band(G): K^π=1⁺ band.

β⁻ radiations

E(decay)	E(level)	Iβ ^{-†‡}	Log ft	Comments
	2371.27?	0.027 3	5.2 5	av Eβ=37 12
(138.3 25)	2163.3	0.024 2	5.21 5	av Eβ=36.74 63
(173.0 25)	2128.6	0.054 3	5.16 3	av Eβ=46.63 65
(302.4 25)	1999.2	0.009 1	6.71 5	av Eβ=85.65 71
(319.2 25)	1982.4	0.019 2	6.46 5	av Eβ=90.95 71
(519.0 24)	1782.63	0.14 1	6.29 4	av Eβ=157.52 77
(556.1 24)	1745.48	0.17 1	6.30 3	av Eβ=170.55 79
(610.2 24)	1691.41	0.32 2	6.17 3	av Eβ=189.84 80
(848.0 25)	1453.6	0.015 2	7.99 6	av Eβ=278.56 86
(943.8 [#] 24)	1357.80	0.06 1		av Eβ=315.81 88 Iβ ⁻ : from the listed Iβ value, log ft=7.56 8. From the assigned J ^π values, this is a 2nd forbidden transition, for which the log ft value is expected to be >11.0 (1973Ra10). Thus, the evaluator has shown this transition as questionable.
(1025.8 24)	1275.78	0.14 2	7.32 7	av Eβ=348.30 89
(1153.4 24)	1148.24	97 6	4.67 3	av Eβ=399.75 90 E(decay): measured values: 1380 80 (1977Ka08), 1250 100 (1968Ka10), 1450 100 (1967Gu03), 1375 50 (1966Sc24) and 1300 (1966Fu08).
(1338.6 24)	962.97	≤0.3	≥8.2 ^{1u}	av Eβ=477.45 88 Iβ ⁻ : Value is from log ft systematics (1973Ra10). Value computed from γ intensity balance is 0.7 10.
(1413.4 24)	888.19	1 5	7.0 22	av Eβ=507.55 93
(2220.9 24)	80.66	0.1	8.7	av Eβ=858.08 98 Iβ ⁻ : Evaluators' decomposition of measured 0.4% branch to 0- and 80-keV levels (1968Ka10).
(2301.6 26)	0.0	0.3	8.3	av Eβ=893.94 98 Iβ ⁻ : Evaluator's decomposition of measured 0.4% branch to 0- and 80-keV levels (1968Ka10). There might be some concern as to the possibility that part of this component was due to summing. Also, 1968Ka10 give Iβ ⁻ (888)≈5% which is a factor of 10 larger than the value deduced here. 1977Ka08 give Iβ ⁻ (0+80)<0.5%.

[†] From γ-intensity balances, unless otherwise noted; therefore, their accuracy depends on the completeness of the decay scheme.

[‡] Absolute intensity per 100 decays.

[#] Existence of this branch is questionable.

¹⁶²Tb β⁻ decay **1977Ka08 (continued)**

γ(¹⁶²Dy)

I_γ normalization: From sum of Iβ⁻=100%. Iβ⁻ are from γ intensity balances, except Iβ⁻(0+80)=0.4% as measured by 1968Ka10, Iβ⁻(962)≤0.3% from log ft systematics (1973Ra10), and Iβ⁻(1210)=0.0% since transition is 2nd forbidden (computed value is Iβ⁻=0.018% 4). 1977Ka08 use I_γ normalization=0.0434, which is in agreement.

<u>E_γ[†]</u>	<u>I_γ^{‡#f}</u>	<u>E_i(level)</u>	<u>J_i^π</u>	<u>E_f</u>	<u>J_f^π</u>	<u>Mult.[@]</u>	<u>δ[@]</u>	<u>α^{&}</u>	<u>Comments</u>
(74.7 ^a)	0.07 ^b	962.97	3 ⁺	888.19	2 ⁺	[M1,E2]		6.9 14	α(K)=3.4 13; α(L)=2.7 21; α(M)=0.6 5; α(N+..)=0.16 13 α(N)=0.15 11; α(O)=0.018 13; α(P)=0.00019 10 %I _γ =0.0030 α: value computed assuming δ=1.
80.66 5	202 11	80.66	2 ⁺	0.0	0 ⁺	E2		6.14	α(K)=1.82 3; α(L)=3.32 5; α(M)=0.797 12; α(N+..)=0.200 3 α(N)=0.178 3; α(O)=0.0212 3; α(P)=7.66×10 ⁻⁵ 11 %I _γ =8.6 6
184.98 9	63 ^c 3	265.64	4 ⁺	80.66	2 ⁺	E2		0.307	α(K)=0.200 3; α(L)=0.0826 12; α(M)=0.0194 3; α(N+..)=0.00494 7 α(N)=0.00438 7; α(O)=0.000551 8; α(P)=9.37×10 ⁻⁶ 14 %I _γ =2.68 16
185.27 5	337 ^c 20	1148.24	2 ⁻	962.97	3 ⁺	E1	^e	0.0595	α(K)=0.0501 7; α(L)=0.00731 11; α(M)=0.001598 23; α(N+..)=0.000419 6 α(N)=0.000365 6; α(O)=5.13×10 ⁻⁵ 8; α(P)=2.51×10 ⁻⁶ 4 %I _γ =14.3 10
(247.1 ^a)	0.031 ^b 5	1210.02	3 ⁻	962.97	3 ⁺	E1		0.0281	α(K)=0.0238 4; α(L)=0.00340 5; α(M)=0.000742 11; α(N+..)=0.000195 3 α(N)=0.0001700 24; α(O)=2.41×10 ⁻⁵ 4; α(P)=1.230×10 ⁻⁶ 18 %I _γ =0.00132 22
260.05 6	187×10 ¹ 10	1148.24	2 ⁻	888.19	2 ⁺	E1	^e	0.0247	α(K)=0.0209 3; α(L)=0.00297 5; α(M)=0.000649 9; α(N+..)=0.0001711 24 α(N)=0.0001488 21; α(O)=2.11×10 ⁻⁵ 3; α(P)=1.085×10 ⁻⁶ 16 %I _γ =80 5
(321.9 ^a)	0.059 ^b 9	1210.02	3 ⁻	888.19	2 ⁺	E1		0.01445	α(K)=0.01225 18; α(L)=0.001725 25; α(M)=0.000376 6; α(N+..)=9.94×10 ⁻⁵ 14 α(N)=8.64×10 ⁻⁵ 12; α(O)=1.235×10 ⁻⁵ 18; α(P)=6.49×10 ⁻⁷ 9 %I _γ =0.0025 4
543.2 6	2.5 3	1691.41	2 ⁻	1148.24	2 ⁻	M1+E2		0.018 6	α(K)=0.015 6; α(L)=0.0023 6; α(M)=0.00052 12; α(N+..)=0.00014 4 α(N)=0.00012 3; α(O)=1.7×10 ⁻⁵ 5; α(P)=9.E-7 4 %I _γ =0.106 13
622.52 10	20.8 7	888.19	2 ⁺	265.64	4 ⁺	E2		0.00875	α: value computed assuming δ=1. α(K)=0.00718 10; α(L)=0.001229 18; α(M)=0.000274 4; α(N+..)=7.22×10 ⁻⁵ 11 α(N)=6.29×10 ⁻⁵ 9; α(O)=8.83×10 ⁻⁶ 13; α(P)=4.08×10 ⁻⁷ 6 %I _γ =0.88 5

¹⁶²Tb β⁻ decay **1977Ka08 (continued)**

γ(¹⁶²Dy) (continued)

E_γ †	I_γ ‡#f	E_i (level)	J_i^π	E_f	J_f^π	Mult. @	δ @	α &	Comments
697.35 10	60.3 18	962.97	3 ⁺	265.64	4 ⁺	E2(+M1)	>10.4	0.00672	$\alpha(K)=0.00556$ 9; $\alpha(L)=0.000912$ 13; $\alpha(M)=0.000203$ 3; $\alpha(N+..)=5.34\times 10^{-5}$ 8 $\alpha(N)=4.65\times 10^{-5}$ 7; $\alpha(O)=6.58\times 10^{-6}$ 10; $\alpha(P)=3.18\times 10^{-7}$ 5 %I γ =2.56 12
728.5 4	1.62 19	1691.41	2 ⁻	962.97	3 ⁺	E1		0.00231	%I γ =0.069 9
807.53 8	1000 30	888.19	2 ⁺	80.66	2 ⁺	E2+M1	+57 +∞-33	0.00481	$\alpha(K)=0.00400$ 6; $\alpha(L)=0.000628$ 9; $\alpha(M)=0.0001390$ 20; $\alpha(N+..)=3.68\times 10^{-5}$ 6 $\alpha(N)=3.20\times 10^{-5}$ 5; $\alpha(O)=4.56\times 10^{-6}$ 7; $\alpha(P)=2.30\times 10^{-7}$ 4 %I γ =42.5 21
819.7 6	0.58 10	1782.63	2 ⁺	962.97	3 ⁺				%I γ =0.025 4
857.0 3	2.03 13	1745.48	1 ⁺	888.19	2 ⁺	M1(+E2)	<0.29	0.00759 18	$\alpha(K)=0.00644$ 15; $\alpha(L)=0.000897$ 19; $\alpha(M)=0.000196$ 5; $\alpha(N+..)=5.24\times 10^{-5}$ 11 $\alpha(N)=4.54\times 10^{-5}$ 10; $\alpha(O)=6.67\times 10^{-6}$ 15; $\alpha(P)=3.89\times 10^{-7}$ 10 %I γ =0.086 7
882.32 8	314 10	962.97	3 ⁺	80.66	2 ⁺	E2+M1	+41 +34-13	0.00397	$\alpha(K)=0.00332$ 5; $\alpha(L)=0.000508$ 8; $\alpha(M)=0.0001121$ 16; $\alpha(N+..)=2.97\times 10^{-5}$ 5 $\alpha(N)=2.58\times 10^{-5}$ 4; $\alpha(O)=3.69\times 10^{-6}$ 6; $\alpha(P)=1.91\times 10^{-7}$ 3 %I γ =13.4 7
888.20 8	904 28	888.19	2 ⁺	0.0	0 ⁺	E2		0.00391	$\alpha(K)=0.00327$ 5; $\alpha(L)=0.000500$ 7; $\alpha(M)=0.0001103$ 16; $\alpha(N+..)=2.92\times 10^{-5}$ 4 $\alpha(N)=2.54\times 10^{-5}$ 4; $\alpha(O)=3.64\times 10^{-6}$ 5; $\alpha(P)=1.88\times 10^{-7}$ 3 %I γ =38.4 19
894.7 4	0.69 6	1782.63	2 ⁺	888.19	2 ⁺				%I γ =0.0293 28
944.2 6	0.24 5	1210.02	3 ⁻	265.64	4 ⁺	E1+M2	-0.10 +3-5	0.00153 18	$\alpha(K)=0.00130$ 15; $\alpha(L)=0.000176$ 22; $\alpha(M)=3.8\times 10^{-5}$ 5; $\alpha(N+..)=1.02\times 10^{-5}$ 13 $\alpha(N)=8.8\times 10^{-6}$ 12; $\alpha(O)=1.29\times 10^{-6}$ 17; $\alpha(P)=7.4\times 10^{-8}$ 10 %I γ =0.0102 22 %I γ =0.0043 17 %I γ =0.0153 18
980.4 7	0.10 4	2128.6	1 ⁻	1148.24	2 ⁻				%I γ =0.0153 18
1014.9 6	0.36 4	2163.3	1,2,3	1148.24	2 ⁻				%I γ =0.0153 18
1067.55 10	13.0 4	1148.24	2 ⁻	80.66	2 ⁺	[E1]		1.11×10 ⁻³	$\alpha(K)=0.000946$ 14; $\alpha(L)=0.0001252$ 18; $\alpha(M)=2.72\times 10^{-5}$ 4; $\alpha(N+..)=7.23\times 10^{-6}$ 11 $\alpha(N)=6.26\times 10^{-6}$ 9; $\alpha(O)=9.16\times 10^{-7}$ 13; $\alpha(P)=5.28\times 10^{-8}$ 8 %I γ =0.553 27

4

¹⁶²Tb β⁻ decay **1977Ka08 (continued)**

γ(¹⁶²Dy) (continued)

<u>E_γ[†]</u>	<u>I_γ^{‡#f}</u>	<u>E_i(level)</u>	<u>J_i^π</u>	<u>E_f</u>	<u>J_f^π</u>	<u>Mult.[@]</u>	<u>δ[@]</u>	<u>α^{&}</u>	<u>Comments</u>
1092.4 4	0.46 4	1357.80	3 ⁻	265.64	4 ⁺	E1	<i>e</i>	1.06×10 ⁻³	α(K)=0.000907 13; α(L)=0.0001199 17; α(M)=2.60×10 ⁻⁵ 4; α(N+..)=6.93×10 ⁻⁶ 10 α(N)=6.00×10 ⁻⁶ 9; α(O)=8.78×10 ⁻⁷ 13; α(P)=5.07×10 ⁻⁸ 8 %I _γ =0.0196 19
1129.3 4	0.28 4	1210.02	3 ⁻	80.66	2 ⁺	E1+M2	+0.05 ^e +5-3	0.00102 7	α(K)=0.00087 6; α(L)=0.000115 9; α(M)=2.50×10 ⁻⁵ 18; α(N+..)=1.12×10 ⁻⁵ 5 α(N)=5.8×10 ⁻⁶ 5; α(O)=8.5×10 ⁻⁷ 7; α(P)=4.9×10 ⁻⁸ 4; α(IPF)=4.50×10 ⁻⁶ 9 %I _γ =0.0119 18 %I _γ =0.0068 13
1161.1 6	0.16 3	2371.27?	1 ⁻ ,2,3	1210.02	3 ⁻				
1187.9 6	0.16 3	1453.6	2 ⁺	265.64	4 ⁺	E2		0.00215	α(K)=0.00181 3; α(L)=0.000261 4; α(M)=5.71×10 ⁻⁵ 8; α(N+..)=1.93×10 ⁻⁵ 3 α(N)=1.317×10 ⁻⁵ 19; α(O)=1.91×10 ⁻⁶ 3; α(P)=1.046×10 ⁻⁷ 15; α(IPF)=4.15×10 ⁻⁶ 8 %I _γ =0.0068 13
1195.1 3	2.11 8	1275.78	1 ⁻	80.66	2 ⁺	E1	<i>e</i>	9.23×10 ⁻⁴	α(K)=0.000772 11; α(L)=0.0001017 15; α(M)=2.20×10 ⁻⁵ 3; α(N+..)=2.75×10 ⁻⁵ 4 α(N)=5.09×10 ⁻⁶ 8; α(O)=7.44×10 ⁻⁷ 11; α(P)=4.32×10 ⁻⁸ 6; α(IPF)=2.17×10 ⁻⁵ 4 %I _γ =0.090 5 %I _γ =0.0132 18 %I _γ =0.0077 13
1223.0 6	0.31 4	2371.27?	1 ⁻ ,2,3	1148.24	2 ⁻				
^x 1267.5 6	0.18 3								
1275.8 4	1.1 ^d 3	1275.78	1 ⁻	0.0	0 ⁺	E1	<i>e</i>	8.60×10 ⁻⁴	α(K)=0.000687 10; α(L)=9.03×10 ⁻⁵ 13; α(M)=1.96×10 ⁻⁵ 3; α(N+..)=6.29×10 ⁻⁵ 9 α(N)=4.52×10 ⁻⁶ 7; α(O)=6.62×10 ⁻⁷ 10; α(P)=3.85×10 ⁻⁸ 6; α(IPF)=5.77×10 ⁻⁵ 9 %I _γ =0.047 13
1276.9 4	1.0 ^d 3	1357.80	3 ⁻	80.66	2 ⁺	E1		8.60×10 ⁻⁴	α(K)=0.000686 10; α(L)=9.02×10 ⁻⁵ 13; α(M)=1.95×10 ⁻⁵ 3; α(N+..)=6.35×10 ⁻⁵ 9 α(N)=4.51×10 ⁻⁶ 7; α(O)=6.61×10 ⁻⁷ 10; α(P)=3.84×10 ⁻⁸ 6; α(IPF)=5.83×10 ⁻⁵ 9 %I _γ =0.043 13 %I _γ =0.0153 18
^x 1287.6 5	0.36 4								
1372.9 6	0.19 3	1453.6	2 ⁺	80.66	2 ⁺	M1+E2(+E0)	+0.40 15	0.00253 4	α(K)=0.00202 8; α(L)=0.000277 10; α(M)=6.04×10 ⁻⁵ 22; α(N+..)=5.65×10 ⁻⁵ 14 α(N)=1.40×10 ⁻⁵ 5; α(O)=2.06×10 ⁻⁶ 8; α(P)=1.21×10 ⁻⁷ 5; α(IPF)=4.03×10 ⁻⁵ 8 %I _γ =0.0081 13

5

¹⁶²Tb β⁻ decay **1977Ka08 (continued)**

γ(¹⁶²Dy) (continued)

<u>E_γ[†]</u>	<u>I_γ^{‡#f}</u>	<u>E_i(level)</u>	<u>J_i^π</u>	<u>E_f</u>	<u>J_f^π</u>	<u>Mult.[@]</u>	<u>α^{&}</u>	<u>Comments</u>
1483.3 5	0.11 3	2371.27?	1 ⁻ ,2,3	888.19	2 ⁺			Mult.,δ: from (n,n'γ). See the comment on this point in the Adopted Gammas. α: value computed using the listed mult and δ. No contribution from a possible E0 contribution is included. %I _γ =0.0047 13 %I _γ =0.0102 13 %I _γ =0.0098 13 %I _γ =0.0068 13 %I _γ =0.141 7 α(K)=0.00115 21; α(L)=0.00016 3; α(M)=3.4×10 ⁻⁵ 6; α(N+..)=0.000156 14 α(N)=7.9×10 ⁻⁶ 14; α(O)=1.17×10 ⁻⁶ 21; α(P)=6.8×10 ⁻⁸ 13; α(IPF)=0.000147 13 %I _γ =0.079 4 α: value computed assuming δ=1. %I _γ =0.0349 22 %I _γ =0.0387 22 %I _γ =0.0046 8 %I _γ =0.0095 10 %I _γ =0.0071 8 %I _γ =0.0092 8 %I _γ =0.0016 5 %I _γ =0.0497 25 %I _γ =0.0083 8 %I _γ =0.0070 7 %I _γ =0.0061 6 %I _γ =0.0022 4
1517.0 6	0.24 3	1782.63	2 ⁺	265.64	4 ⁺			
^x 1547.4 6	0.23 3							
^x 1556.5 6	0.16 3							
1610.7 3	3.32 11	1691.41	2 ⁻	80.66	2 ⁺			
1665.1 3	1.86 7	1745.48	1 ⁺	80.66	2 ⁺	M1,E2	0.00150 25	
1702.1 5	0.82 4	1782.63	2 ⁺	80.66	2 ⁺			
1782.4 3	0.91 4	1782.63	2 ⁺	0.0	0 ⁺			
^x 1806.1 8	0.108 18							
1901.8 6	0.223 22	1982.4	1,2 ⁺	80.66	2 ⁺			
1918.6 6	0.168 17	1999.2	2 ⁺	80.66	2 ⁺			
1982.3 6	0.216 17	1982.4	1,2 ⁺	0.0	0 ⁺			
1999.1 8	0.038 11	1999.2	2 ⁺	0.0	0 ⁺			
2047.9 4	1.17 4	2128.6	1 ⁻	80.66	2 ⁺			
2082.8 6	0.194 16	2163.3	1,2,3	80.66	2 ⁺			
^x 2167.3 6	0.164 14							
^x 2233.0 8	0.143 13							
2290.2 10	0.051 10	2371.27?	1 ⁻ ,2,3	80.66	2 ⁺			

[†] From 1977Ka08. The only other values of comparable quality are from 1969Cl11 for 8 γ's.

[‡] From 1977Ka08. There are no other data of comparable quality.

[#] I(K x)=320 110 (1967Gu03).

[@] Assignments and values are from the ¹⁶²Dy Adopted γ radiations and are based on the following: ce data from (n,γ) (1967Ba34), (α,2nγ) (1982Fi15), and ¹⁶²Ho ε decay (1961Ha23,1961Jo10); γ(θ) following (α,2nγ) (1982Fi15) and (n,n'γ) (1977Ho11); and γγ(θ) following (n,γ) (1980Hu06) and Coulomb excitation (1972Do01).

[&] Values are computed for the more precise E_γ values in ¹⁶²Dy Adopted γ radiations.

^a Nominal value from ¹⁶²Dy Adopted γ radiations.

^b From ¹⁶²Dy Adopted γ radiations.

^c Doublet value decomposed to give intensity balance at 265 level (1977Ka08).

^d Doublet value decomposed from γγ coincidence data.

^e See ¹⁶²Dy Adopted γ radiations for limit on M2 mixing.

^f For absolute intensity per 100 decays, multiply by 0.0425 16.

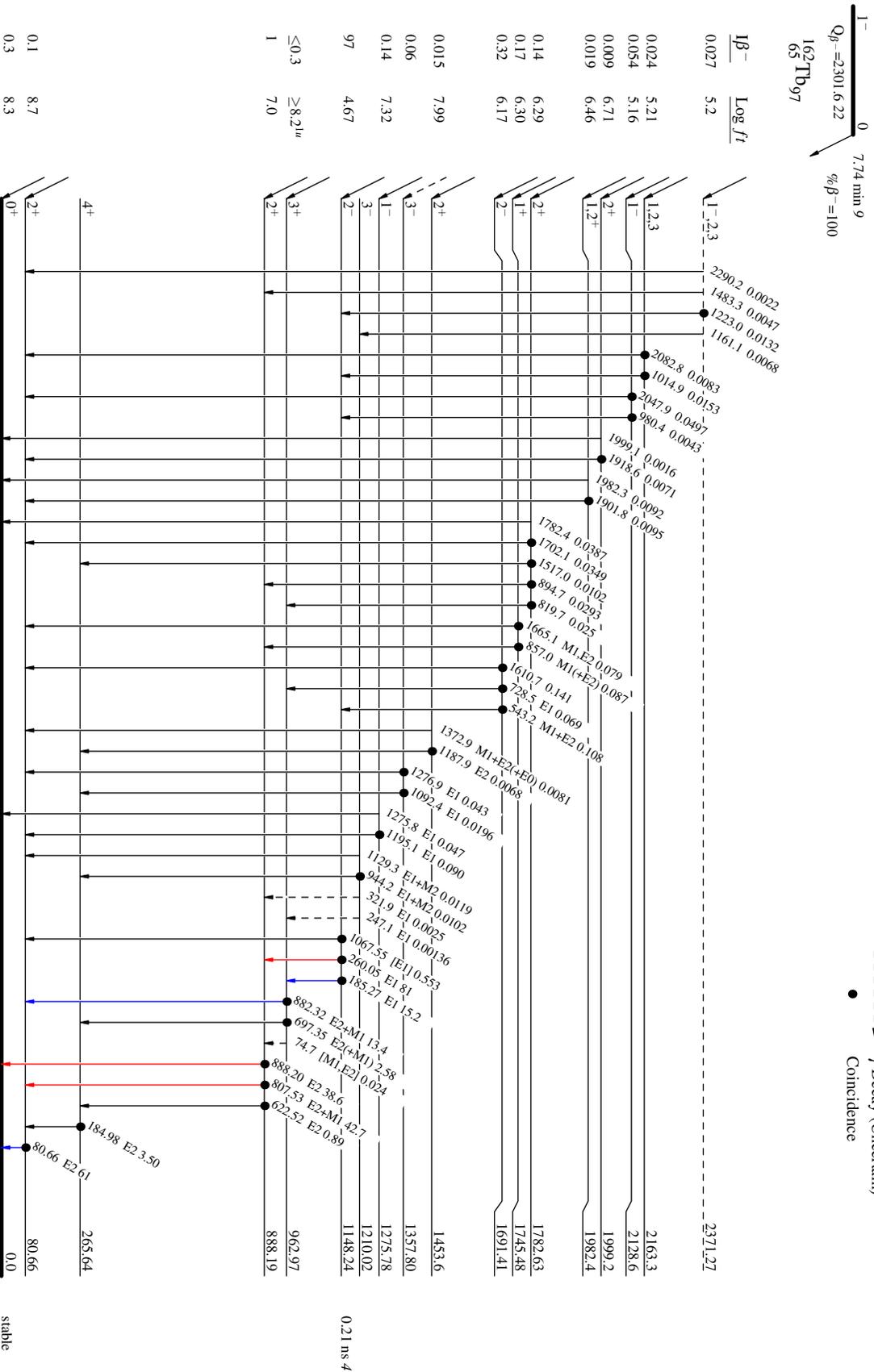
^x γ ray not placed in level scheme.

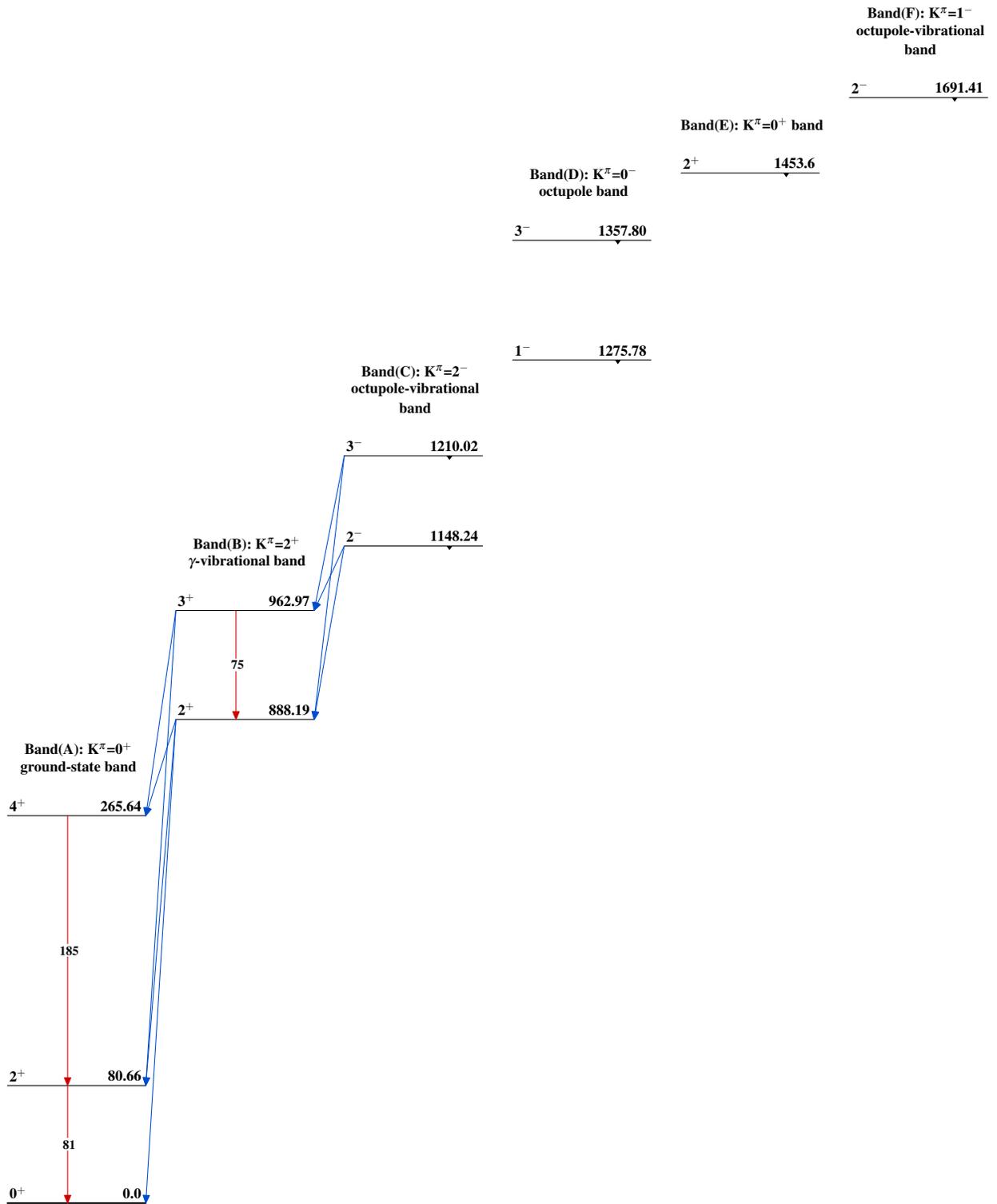
¹⁶²Tb β⁻ decay 1977Ka08

Decay Scheme

Intensities: I_γ(+ε) per 100 parent decays

- Legend
- I_γ < 2% × I_{max}
 - I_γ < 10% × I_{max}
 - I_γ > 10% × I_{max}
 - γ Decay (Uncertain)
 - Coincidence



^{162}Tb β^- decay 1977Ka08

^{162}Tb β^- decay 1977Ka08 (continued)

Band(G): $K^\pi=1^+$ band

2⁺ 1782.63

1⁺ 1745.48

$^{162}_{66}\text{Dy}_{96}$