^{129}Te β^- decay (69.6 min) 1976Ma35

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	Janos Timar and Zoltan Elekes, Balraj Singh	NDS 121, 143 (2014)	31-May-2014

Parent: ^{129}Te: E=0.0; J$^\pi$=3/2$^+$; $T_{1/2}$=69.6 min *3*; Q(β^-)=1502 *3*; %β^- decay=100.0

^{129}Te-Q(β^-): From 2012Wa38.

^{129}Te-J$^\pi$,$T_{1/2}$: From ^{129}Te Adopted Levels.

1976Ma35: 105 mg enriched ^{128}Te (99.5%) was irradiated at the Pool Type Reactor, Livermore. Measured Eγ, Iγ, $\gamma\gamma$-coincidences using two Ge(Li) detectors.

Others:

1974De15: Eγ, Iγ, $\gamma\gamma$, $\gamma\gamma(\theta)$ measurements. ^{129}Te source produced by (n,γ) reaction in the BR2 reactor at Mol, Belgium. Two Ge(Li) and one NaI(Tl) detectors used for γ-ray measurements. The $\gamma\gamma(\theta)$ data were obtained using two Ge(Li) detectors.

1973Si14: γ(temp,θ) measurements on oriented nuclei. 20 mg enriched ^{128}Te irradiated with neutrons. ^{3}He-^{4}He dilution refrigerator was used to perform the nuclear orientation measurements; the temperature of the radioactive source was kept between 14 mK and 50 mK. Two Ge(Li) detected the γ rays at 0 and 90 degrees with respect to the magnetic field.

1969Di01: 100 mg enriched ^{130}Te (99.5%) used in (n,2n) reaction at Livermore 14 MeV neutron generator. 200 mg enriched ^{128}Te (99.46%) irradiated at Livermore pool-type reactor. The γ radiation was detected by 6 cm^3 and 20 cm^3 Ge(Li) detectors. Coincidence measurements were performed with two NaI(Tl) detectors.

1968Go34, 1956Gr10: β and ce measurements.

1964De10: 3 mg of enriched ^{129}Te (97%) irradiated with neutrons in the Apsara reactor, and 10 mg of enriched ^{128}Te in the DIDO reactor, Harwell. NaI(Tl) used for detecting γ rays and determining relative intensities. Resolution was 8.5% at 662 keV. For $\gamma\gamma$ coincidence, two NaI(Tl) were used. Beta spectrum of ^{129m}Te isomer was studied with Siegbahn-Slatis spectrometer. Beta spectrum of short-lived activity was studied with 4π scintillation β ray spectrometer using plastic phosphors. The $\beta\gamma$ coincidences were measured. The log *ft* values were deduced.

Other γ-ray measurements: 1968Bu21, 1967Be03, 1965Hu08, 1965Bo12, 1964Ra04, 1963Ra11, 1956Gr10, 1955St94, 1955Ma54, 1955Da37.

Other $\gamma\gamma(\theta)$ measurements: 1969Sa22, 1969Ma33, 1969Ma47, 1967Va37, 1965Gu07, 1964Ka09, 1963Ra11.

^{129}I Levels

E(level)†	J$^\pi$‡	$T_{1/2}$‡	Comments
0.0	7/2$^+$	1.57×10^7 y *4*	
27.80 *2*	5/2$^+$	16.8 ns *2*	$T_{1/2}$: from (β)(0.0278 ce(L))(t) (1966Sa06). Others (from $\beta\gamma$(t) or $\gamma\gamma$(t)): 16.4 ns *11* (1965Pa04), 14.4 ns *5* (1964Ka09), 14.4 ns *7* (1964Jh02), 15.9 ns *13* (1963Go17), 18.6 ns *11* (1962De18).
278.38 *3*	3/2$^+$	0.104 ns *12*	
487.35 *3*	5/2$^+$#	11.6 ps *27*	
559.62 *3*	1/2$^+$		
729.57 *3*	(9/2)$^+$#	3.8 ps *4*	
768.76 *3*	(7/2)$^+$#		
829.92 *3*	3/2$^+$,5/2$^+$		
844.82 *3*	(7/2)$^+$		
1047.35 *4*	3/2$^+$,5/2$^+$		
1050.21 *3*	(7/2)$^+$#		
1111.65 *3*	5/2$^+$#		
1196.65 *13*			
1209.80 *10*	1/2$^+$		
1260.66 *3*	3/2$^+$,5/2$^+$		
1291.94 *4*	(3/2$^+$,5/2$^+$)		

† From least-squares fit to Eγ data.

‡ From Adopted Levels unless otherwise stated.

Assignment also from γ(temp,θ) data (1973Si14).

^{129}Te β^- decay (69.6 min) 1976Ma35 (continued)

β^- radiations

E(decay)	E(level)	Iβ^- †	Log *ft*	Comments
(210 *3*)	1291.94	0.033 *4*	6.32 *6*	av Eβ=58.09 *97*
(241 *3*)	1260.66	0.039 *3*	6.44 *4*	av Eβ=67.61 *99*
(292 *3*)	1209.80	0.00055 *11*	8.6 *1*	av Eβ=83.5 *11*
(305 *3*)	1196.65	0.00066 *16*	8.5 *1*	av Eβ=87.7 *11*
(390 *3*)	1111.65	0.88 *6*	5.77 *4*	av Eβ=115.7 *11* Measured Eβ=290 *60* (1956Gr10), 395 (1964De10). Measured Iβ=10.4 (1956Gr10).
(455 *3*)	1047.35	0.0091 *9*	7.97 *5*	av Eβ=137.7 *12*
(672 *3*)	829.92	0.213 *16*	7.18 *4*	av Eβ=216.7 *12* Measured Eβ=690 *100*, Iβ=3.7 (1956Gr10).
(772‡ *3*)	729.57	0.0007 *4*	9.9 *3*	av Eβ=255.1 *13* Iβ^-: no β feeding is expected to this level, apparent small feeding is likely due to missing weak γ rays.
(942 *3*)	559.62	0.252 *18*	7.64 *4*	av Eβ=322.6 *13*
(1015 *3*)	487.35	9.3 *7*	6.19 *4*	av Eβ=352.0 *14* Measured Eβ=989 *20* (1956Gr10), 955, 1010 (1964De10). Measured Iβ=15.4 (1956Gr10).
(1224 *3*)	278.38	0.56 *5*	7.71 *4*	av Eβ=439.0 *14*
(1474 *3*)	27.80	89 *13*	5.82 *7*	av Eβ=546.6 *14* Measured Eβ=1453 *5* (1956Gr10), 1452 *10* (1964De10), 1476 *4* (1968Go34). Measured Iβ=70.5 (1956Gr10).

† Absolute intensity per 100 decays.
‡ Existence of this branch is questionable.

$\gamma(^{129}I)$

Iγ normalization: From $\Sigma(\gamma$+ce to ground state)=100.

E_γ	I_γ[a]	E_i(level)	J_i^π	E_f	J_f^π	Mult.[@]	δ[@]	α[&]	Comments
27.81 *5*	212 *21*	27.80	5/2+	0.0	7/2+	M1+E2	−0.053 *3*	5.07 *11*	α(L)=4.06 *9*; α(M)=0.825 *18*; α(N)=0.165 *4*; α(O)=0.0186 *4* E_γ: other: 27.78 *5* (ce data in 1965Be26). δ: magnitude from L1/L2/L3=1/0.145 *12*/0.119 *13* (1965Be26) and using BrIccMixing code; sign from δ=−0.045 *14* (from ratio of lines in Mossbauer spectrum (1970De37). Others: α(exp)=4.5 *5* (1964De10), 4.8 *4* (1969Sa22) are in agreement with theoretical value deduced from δ=−0.053 *3*. Possible penetration effects are discussed by 1970Va06; these are expected to be very small in the case of 27.81-keV transition in ^{119}I. Other δ=0.016 *11* from (460γ)(28γ)(θ) (1965Gu07). I_γ: no data given in 1976Ma35. Deduced from the ratio I(27γ)/I(209γ+ 251γ+278γ+281γ)=12.6 *12* in 1969Di01 by the evaluators.
208.96 *5*	2.34 *7*	487.35	5/2+	278.38	3/2+	M1+E2	−0.18 *4*	0.0983 *15*	α(K)=0.0844 *13*; α(L)=0.01110 *20*; α(M)=0.00224 *4* α(N)=0.000452 *8*; α(O)=5.27×10^{-5} *9* δ: weighted average of δ=−0.22 *5* (1974De15) and −0.16 *4* (1973Sa14). Other: −0.66 *+28−13* (1965Gu07, as quoted by 1977Kr13) is in disagreement. 209γ(temp,θ): U_2F_2=+0.507 *46* (1973Sa14); 1977Kr13 give δ=−0.16 *4* from this work. (209γ)(251γ)(θ): A_2=+0.234 *12*, A_4=+0.011 *22* (1974De15). (209γ)(278γ)(θ): A_2=−0.059 *11*, A_4=+0.018 *18* (1974De15).
210.66 *19*	0.017 *9*	1260.66	3/2+,5/2+	1050.21	(7/2)+	[M1+E2]		0.113 *18*	α(K)=0.093 *12*; α(L)=0.016 *5*; α(M)=0.0032 *11* α(N)=0.00063 *21*; α(O)=6.8×10^{-5} *18*
242.2 *1*	0.00002 *1*	729.57	(9/2)+	487.35	5/2+	[E2]		0.0812	α(K)=0.0661 *10*; α(L)=0.01207 *17*; α(M)=0.00248 *4* α(N)=0.000490 *7*; α(O)=5.13×10^{-5} *8* I_γ: from I(730γ) and I(242γ)/I(730γ) in 33.6 d decay. $\Delta I\gamma$: Estimated by evaluators in 33.6 d decay.
250.62 *5*	4.97 *15*	278.38	3/2+	27.80	5/2+	M1+E2	+0.56 *+16−12*	0.0628 *16*	α(K)=0.0534 *11*; α(L)=0.0076 *5*; α(M)=0.00153 *9* α(N)=0.000308 *18*; α(O)=3.49×10^{-5} *15* 251γ(temp,θ): U_2F_2=+0.225 *29* (1973Sa14). δ: weighted average of δ=+0.53 *+16−12*

$\gamma(^{129}I)$ (continued)

E_γ	I_γ[a]	E_i(level)	J_i^π	E_f	J_f^π	Mult.[@]	δ[@]	α[&]	Comments
									(1974De15,$\gamma\gamma(\theta)$) and +0.60 *+21−13* (as quoted by 1977Kr13 from γ(temp,θ) data of 1973Si14). Others: +3.5 *+20−11* ($\gamma\gamma(\theta)$,1974De15) is discarded since it is inconsistent with low-temperature orientation data; +1.2 *+38−8* deduced by 1977Kr13 from $\gamma(\theta)$ in (α,α') data of 1973Re08.
270.37 *6*	0.060 *4*	829.92	3/2$^+$,5/2$^+$	559.62	1/2$^+$	[M1+E2]		0.053 *4*	α(K)=0.0443 *22*; α(L)=0.0067 *14*; α(M)=0.0014 *3* α(N)=0.00027 *6*; α(O)=3.0×10^{-5} *5*
278.43 *5*	7.36 *22*	278.38	3/2$^+$	0.0	7/2$^+$	E2		0.0512	α(K)=0.0422 *6*; α(L)=0.00723 *11*; α(M)=0.001483 *21* α(N)=0.000293 *5*; α(O)=3.12×10^{-5} *5* 278γ+281γ(temp,θ): U_2F_2=+0.001 *27* (1973Sa14).
281.26 *5*	2.14 *7*	559.62	1/2$^+$	278.38	3/2$^+$	M1+E2	−0.08 *4*	0.0442	α(K)=0.0381 *6*; α(L)=0.00487 *7*; α(M)=0.000980 *15* α(N)=0.000199 *3*; α(O)=2.33×10^{-5} *4* δ: from 1977Kr13 based on δ=−0.08 *3* or +2.09 *14* ($\gamma\gamma(\theta)$, 1974De15). Other δ=−0.01 *4* (1965ArZY), −0.42 *3* (1965Gu07) as quoted by 1977Kr13. (281γ)(251γ)(θ): A_2=+0.238 *15*, A_4=+0.014 *26* (1974De15). (281γ)(278γ)(θ): A_2=−0.048 *14*, A_4=−0.014 *23* (1974De15). Additional information 2.
281.38 *20*	<0.002	768.76	(7/2)$^+$	487.35	5/2$^+$				
281.7 *1*	0.020[†] *4*	1111.65	5/2$^+$	829.92	3/2$^+$,5/2$^+$				
342.54 *5*	0.11 *1*	829.92	3/2$^+$,5/2$^+$	487.35	5/2$^+$	M1+E2	+1.0 *8*	0.0264	α(K)=0.0224 *6*; α(L)=0.0032 *3*; α(M)=0.00065 *6* α(N)=0.000130 *11*; α(O)=1.47×10^{-5} *8* δ: from 1974De15.
342.88 *5*	0.640 *5*	1111.65	5/2$^+$	768.76	(7/2)$^+$	[M1+E2]		0.0264	α(K)=0.0224 *6*; α(L)=0.0032 *3*; α(M)=0.00065 *7* α(N)=0.000129 *12*; α(O)=1.46×10^{-5} *8* (343γ)(460γ)(θ): A_2=−0.34 *6*, A_4=+0.03 *8* (1974De15); δ=+1.0 *8* for 3/2 to 5/2 transition.
382.08 *14*	0.008 *3*	1111.65	5/2$^+$	729.57	(9/2)$^+$	[E2]		0.0188	α(K)=0.01579 *23*; α(L)=0.00242 *4*; α(M)=0.000492 *7* α(N)=9.81×10^{-5} *14*; α(O)=1.077×10^{-5} *16*
415.88 *14*	0.008 *3*	1260.66	3/2$^+$,5/2$^+$	844.82	(7/2)$^+$				
459.60 *5*	100 *3*	487.35	5/2$^+$	27.80	5/2$^+$	M1+E2	−0.08 *+4−5*	0.01260	α(K)=0.01090 *16*; α(L)=0.001369 *20*; α(M)=0.000275 *4* α(N)=5.57×10^{-5} *8*; α(O)=6.56×10^{-6} *10* δ: from γ(temp,θ) data of 1973Sa14. 1977Kr11 evaluation recommended −0.12 *4* based on this value and five other δ values deduced from $\gamma\gamma(\theta)$ data and one from $\gamma(\theta)$ in (α,α'), all of which are in disagreement with each other. Evaluators prefer the measured value from 1973Sa14 since only one γ is involved. Value of δ=−0.30 *8* from 460$\gamma(\theta)$ in (α,α') does not seem reliable due to almost isotropic

$\gamma(^{129}$I) (continued)

E_γ	I_γ[a]	E_i(level)	J^π_i	E_f	J^π_f	Mult.[@]	δ[@]	α[&]	Comments
									distribution, whereas in γ(temp,θ) data of 1973Sa14, strong anisotropy is observed. 460γ(temp,θ): U_2F_2=−0.260 *6* (1973Sa14). (460γ)(28γ)(θ): A_2=−0.033 *11* (1974Ro32); δ=−0.03 *+26−17* deduced by 1977Kr13; value agrees with δ from 1973Sa14. Additional information 1.
462.04 *20*	<0.003	1291.94	(3/2$^+$,5/2$^+$)	829.92	3/2$^+$,5/2$^+$				
487.39 *5*	18.4 *6*	487.35	5/2$^+$	0.0	7/2$^+$	M1+E2	+0.50 *+17−10*	0.01057 *24*	α(K)=0.00911 *22*; α(L)=0.001169 *18*; α(M)=0.000235 *4* α(N)=4.75×10^{-5} *8*; α(O)=5.55×10^{-6} *10* 487γ(temp,θ): U_2F_2=+0.544 *20* (1973Sa14).
491.93 *14*	0.015 *3*	1260.66	3/2$^+$,5/2$^+$	768.76	(7/2)$^+$				
531.83 *5*	1.14 *4*	559.62	1/2$^+$	27.80	5/2$^+$	[E2]		0.00722 *11*	α=0.00722 *11*; α(K)=0.00614 *9*; α(L)=0.000862 *12*; α(M)=0.0001745 *25* α(N)=3.50×10^{-5} *5*; α(O)=3.94×10^{-6} *6*
551.50 *5*	0.046[‡] *5*	829.92	3/2$^+$,5/2$^+$	278.38	3/2$^+$	[M1+E2]		0.0073 *8*	α=0.0073 *8*; α(K)=0.0063 *7*; α(L)=0.00082 *5*; α(M)=0.000166 *9* α(N)=3.34×10^{-5} *20*; α(O)=3.9×10^{-6} *4*
551.98 *5*	0.018[‡] *3*	1111.65	5/2$^+$	559.62	1/2$^+$	[E2]		0.00652 *10*	α=0.00652 *10*; α(K)=0.00555 *8*; α(L)=0.000774 *11*; α(M)=0.0001565 *22* α(N)=3.14×10^{-5} *5*; α(O)=3.55×10^{-6} *5*
560.05 *6*	0.079 *5*	1047.35	3/2$^+$,5/2$^+$	487.35	5/2$^+$				
624.34 *5*	1.26 *4*	1111.65	5/2$^+$	487.35	5/2$^+$	M1(+E2)	+0.01 *5*	0.00595 *16*	α=0.00595 *16*; α(K)=0.00515 *14*; α(L)=0.000641 *14*; α(M)=0.000129 *3* α(N)=2.60×10^{-5} *6*; α(O)=3.07×10^{-6} *8* δ: weighted average (by 1977Kr13) of δ=+0.10 *26* (1973Sa14), −0.02 *6* and +0.06 8 (1974De15). 624γ(temp,θ): U_2F_2=−0.4 *2* (1973Sa14). (624γ)(209γ)(θ): A_2=−0.27 *7*, A_4=+0.05 *9* (1974De15). (624γ)(460γ)(θ): A_2=+0.151 *9*, A_4=+0.003 *12* (1974De15). (624γ)(487γ)(θ): A_2=−0.290 *25*, A_4=−0.002 *36* (1974De15).
701.10 *16*	0.017 *4*	1260.66	3/2$^+$,5/2$^+$	559.62	1/2$^+$				
701.76 *5*	0.0006 *1*	729.57	(9/2)$^+$	27.80	5/2$^+$	[E2]		0.00350 *5*	α=0.00350 *5*; α(K)=0.00300 *5*; α(L)=0.000399 *6*; α(M)=8.05×10^{-5} *12* α(N)=1.620×10^{-5} *23*; α(O)=1.86×10^{-6} *3* I_γ: from I(730γ) and I(701γ)/I(730γ). $\Delta I\gamma$: Estimated by evaluators.
722.5 *2*	≤0.003	1209.80	1/2$^+$	487.35	5/2$^+$				

$^{129}_{53}I_{76}$-5

$\gamma(^{129}I)$ (continued)

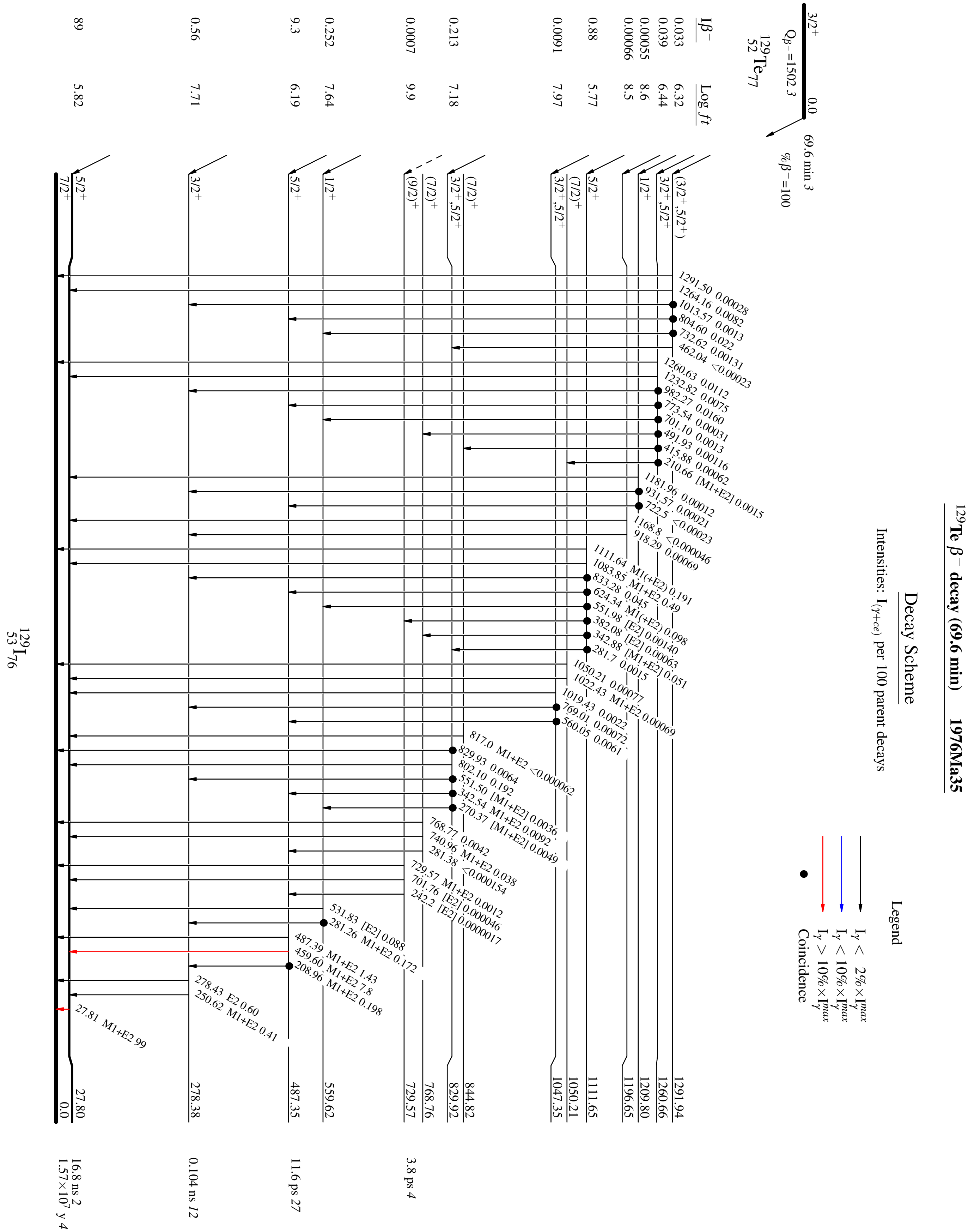
E_γ	I_γ [a]	E_i(level)	J_i^π	E_f	J_f^π	Mult. [@]	δ [@]	α [&]	Comments
729.57 *5*	0.016 *4*	729.57	(9/2)$^+$	0.0	7/2$^+$	M1+E2	−0.34 *6*	0.00402 *7*	α=0.00402 *7*; α(K)=0.00348 *6*; α(L)=0.000432 *7*; α(M)=8.67×10^{-5} *14* α(N)=1.76×10^{-5} *3*; α(O)=2.07×10^{-6} *4*
732.62 *16*	0.017 *3*	1291.94	(3/2$^+$,5/2$^+$)	559.62	1/2$^+$				
740.96 *5*	0.486 *17*	768.76	(7/2)$^+$	27.80	5/2$^+$	M1+E2	−0.27 *10*	0.00390 *8*	α=0.00390 *8*; α(K)=0.00338 *7*; α(L)=0.000419 *8*; α(M)=8.41×10^{-5} *15* α(N)=1.70×10^{-5} *3*; α(O)=2.01×10^{-6} *4*
768.77 *5*	0.055 *6*	768.76	(7/2)$^+$	0.0	7/2$^+$				I_γ: from I(768.77γ+769.01γ) and I(769.01γ) from $\gamma\gamma$-coin. $\Delta I\gamma$: Estimated by evaluators.
769.01 *5*	0.0093[†] *9*	1047.35	3/2$^+$,5/2$^+$	278.38	3/2$^+$				
773.54 *17*	0.003 *2*	1260.66	3/2$^+$,5/2$^+$	487.35	5/2$^+$				
802.10 *5*	2.49 *8*	829.92	3/2$^+$,5/2$^+$	27.80	5/2$^+$				
804.60 *13*	0.28 *3*	1291.94	(3/2$^+$,5/2$^+$)	487.35	5/2$^+$				
817.0 *2*	<0.0008	844.82	(7/2)$^+$	27.80	5/2$^+$	M1+E2	+0.46 *4*	0.00303 *5*	α=0.00303 *5*; α(K)=0.00262 *4*; α(L)=0.000325 *5*; α(M)=6.52×10^{-5} *10* α(N)=1.322×10^{-5} *20*; α(O)=1.556×10^{-6} *24*
829.93 *5*	0.083 *3*	829.92	3/2$^+$,5/2$^+$	0.0	7/2$^+$				
833.28 *5*	0.590 *18*	1111.65	5/2$^+$	278.38	3/2$^+$				
918.29 *15*	0.008 *2*	1196.65		278.38	3/2$^+$				
931.57 *25*	0.0027 *12*	1209.80	1/2$^+$	278.38	3/2$^+$				
982.27 *5*	0.208 *7*	1260.66	3/2$^+$,5/2$^+$	278.38	3/2$^+$				
1013.57 *8*	0.017 *4*	1291.94	(3/2$^+$,5/2$^+$)	278.38	3/2$^+$				
1019.43 *6*	0.029 *7*	1047.35	3/2$^+$,5/2$^+$	27.80	5/2$^+$				
1022.43 *5*	0.009 *1*	1050.21	(7/2)$^+$	27.80	5/2$^+$	M1+E2	−0.02 *2*	0.00188 *3*	α=0.00188 *3*; α(K)=0.001633 *23*; α(L)=0.000200 *3*; α(M)=4.00×10^{-5} *6* α(N)=8.12×10^{-6} *12*; α(O)=9.60×10^{-7} *14*
1050.21 *5*	0.009[#] *1*	1050.21	(7/2)$^+$	0.0	7/2$^+$				
1083.85 *5*	6.4 *2*	1111.65	5/2$^+$	27.80	5/2$^+$	M1+E2	+0.56 *+24−14*	0.00156 *6*	α=0.00156 *6*; α(K)=0.00136 *6*; α(L)=0.000167 *6*; α(M)=3.34×10^{-5} *12* α(N)=6.76×10^{-6} *24*; α(O)=8.0×10^{-7} *3* δ: other: +0.15 *10* quoted by 1977Kr13 from (1084γ)(28γ)(θ) in 1965ArZY. Additional information 3.
1111.64 *5*	2.48 *10*	1111.65	5/2$^+$	0.0	7/2$^+$	M1(+E2)	+0.06 *5*	0.001557 *22*	α=0.001557 *22*; α(K)=0.001351 *19*; α(L)=0.0001650 *24*; α(M)=3.30×10^{-5} *5* α(N)=6.70×10^{-6} *10*; α(O)=7.92×10^{-7} *12*; α(IPF)=5.96×10^{-7} *9*
1168.8 *2*	≤0.0006	1196.65		27.80	5/2$^+$				
1181.96 *11*	0.0015 *6*	1209.80	1/2$^+$	27.80	5/2$^+$				
1232.82 *5*	0.097 *4*	1260.66	3/2$^+$,5/2$^+$	27.80	5/2$^+$				
1260.63 *5*	0.145 *7*	1260.66	3/2$^+$,5/2$^+$	0.0	7/2$^+$				

γ(^{129}I) (continued)

E_γ	I_γ[a]	E_i(level)	J_i^π	E_f	J_f^π	Comments
1264.16 *5*	0.106 *4*	1291.94	(3/2$^+$,5/2$^+$)	27.80	5/2$^+$	
1291.50 *13*	0.0036 *5*	1291.94	(3/2$^+$,5/2$^+$)	0.0	7/2$^+$	E_γ: poor fit, level-energy difference=1291.94; quoted uncertainty may be underestimated.

[†] From $\gamma\gamma$-coin.
[‡] From I(γ)/I(551.50γ+551.98γ) in $\gamma\gamma$-coin, and I(551.50γ+551.98γ)=0.064 *6* in singles.
[#] 1976Ma35 missed the data. Estimated from I(1022γ)/I(1050γ) in ^{129}Te β^- decay (33.6 d).
[@] From low-temperature nuclear orientation γ(temp,θ) (1973Si14), unless otherwise stated.
[&] For [M1+E2] γ rays with no δ value, α overlaps M1 and E2.
[a] For absolute intensity per 100 decays, multiply by 0.077 *5*.

$^{129}_{53}I_{76}$-7



^{129}Te β^- decay (69.6 min) 1976Ma35
Decay Scheme
Intensities: $I_{(\gamma+ce)}$ per 100 parent decays
Legend
$I_\gamma < 2\% \times I_\gamma^{max}$
$I_\gamma < 10\% \times I_\gamma^{max}$
$I_\gamma > 10\% \times I_\gamma^{max}$
Coincidence
$^{129}_{52}Te_{77}$
Q_{β^-}=1502 3
69.6 min 3
%β^-=100
$^{129}_{53}I_{76}$