

^{88}Zr IT decay (1.320 μs) [1978Ha52](#)

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	E. A. Mccutchan and A. A. Sonzogni		NDS 115,135 (2014)	1-Nov-2013

Parent: ^{88}Zr : E=2887.79 6; $J^\pi=8^+$; $T_{1/2}=1.320 \mu\text{s}$ 25; %IT decay=100

All data from the Adopted Levels and Gammas.

 ^{88}Zr Levels

E(level)	J^π	$T_{1/2}$
0.0	0^+	83.4 d 3
1057.03 4	2^+	0.83 ps +4-2
2139.59 5	4^+	
2539.00 6	5^-	
2810.80 6	6^+	
2887.79 6	8^+	1.320 μs 25

 $\gamma(^{88}\text{Zr})$

E_γ	$I_\gamma^\dagger$	$E_i(\text{level})$	J_i^π	E_f	J_f^π	Mult.	$\alpha^\ddagger$	Comments
76.99 1	25.71	2887.79	8^+	2810.80	6^+	E2	2.89	$\alpha(\text{K})=2.303$; $\alpha(\text{L})=0.486$; $\alpha(\text{M})=0.086$; $\alpha(\text{N})=0.0132$
271.80 2	33.2 12	2810.80	6^+	2539.00	5^-	E1	0.00643	$\alpha(\text{K})=0.00561$ 17; $\alpha(\text{L})=0.00062$ 2
399.41 3	33.3 12	2539.00	5^-	2139.59	4^+	E1	0.00229	$\alpha(\text{K})=0.00200$ 6; $\alpha(\text{L})=0.00022$ 1
671.20 4	66.5 9	2810.80	6^+	2139.59	4^+	E2	0.00183	$\alpha(\text{K})=0.00159$ 5; $\alpha(\text{L})=0.00018$ 1
1057.01 4	99.95	1057.03	2^+	0.0	0^+	E2	0.00052	$\alpha(\text{K})=0.00052$ 2
1082.53 4	99.95	2139.59	4^+	1057.03	2^+	E2	0.00049	$\alpha(\text{K})=0.00049$ 2

† Absolute intensity per 100 decays.

‡ 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.

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