

^{177}Yb IT decay (6.41 s) [1966Ve07](#),[1960Ho10](#)

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	F. G. Kondev	NDS 159, 1 (2019)	30-Aug-2019

Parent: ^{177}Yb : E=331.5 3; $J^\pi=1/2^-$; $T_{1/2}=6.41$ s 2; %IT decay=100.0

 ^{177}Yb Levels

E(level) [†]	J^π [‡]	$T_{1/2}$ [‡]	Comments
0.0	9/2 ⁺	1.911 h 3	
104.50 20	7/2 ⁻	4.48 ns 8	$T_{1/2}$: 4.48 ns 8 (1965Ma08), 5.0 ns 4 (1964Lo09), and 4.15 ns 30 (1966Ve07) using $\gamma\gamma(t)$.
331.5 3	1/2 ⁻	6.41 s 2	

[†] From E_γ .

[‡] From Adopted Levels.

 $\gamma(^{177}\text{Yb})$

E_γ [†]	I_γ ^{‡@}	$E_i(\text{level})$	J_i^π	E_f	J_f^π	Mult.	α [#]	Comments
104.5 2	76.63 25	104.50	7/2 ⁻	0.0	9/2 ⁺	E1	0.305	$\alpha(\text{K})=0.252$ 4; $\alpha(\text{L})=0.0411$ 7; $\alpha(\text{M})=0.00921$ 14 $\alpha(\text{N})=0.00212$ 4; $\alpha(\text{O})=0.000279$ 5; $\alpha(\text{P})=1.118\times 10^{-5}$ 17 Mult.: $\alpha(\text{K})_{\text{exp}}=0.58$ 15 (1966Ve07) and $\alpha(\text{K})_{\text{exp}}=0.39$ 5 (1960Ho10).
227.0 2	12.55 15	331.5	1/2 ⁻	104.50	7/2 ⁻	M3	6.97	$\alpha(\text{K})=4.69$ 7; $\alpha(\text{L})=1.74$ 3; $\alpha(\text{M})=0.432$ 7 $\alpha(\text{N})=0.1019$ 15; $\alpha(\text{O})=0.01356$ 20; $\alpha(\text{P})=0.000535$ 8 Mult.: $\alpha(\text{K})_{\text{exp}}=3.75$ 25 (1966Ve07) and $\alpha(\text{K})_{\text{exp}}=4.1$ 4 (1960Ho10).

[†] From adopted gammas.

[‡] From $I(\gamma+\text{ce})=100$ and α .

[#] [Additional information 1](#).

[@] Absolute intensity per 100 decays.

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Decay Scheme

Intensities: I_γ per 100 parent decays
%IT=100.0

Legend

- $I_\gamma < 2\% \times I_\gamma^{max}$
- $I_\gamma < 10\% \times I_\gamma^{max}$
- $I_\gamma > 10\% \times I_\gamma^{max}$

