

$^{171}\text{Yb}(\gamma,\gamma)$ : Mossbauer

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	Coral M. Baglin, E. A. Mccutchan		NDS 151, 334 (2018)	30-Jun-2018

See  $^{171}\text{Yb}$  Adopted Levels for nuclear moments.

$^{171}\text{Tm}$  sources: see [1965Ka04](#), [1966Gu07](#), [1966He09](#), [1970He25](#), and [1971PI03](#); measured nuclear moments,  $\delta(66.7\gamma)$ ,  $T_{1/2}(66.7$  level).

$^{171}\text{Lu}$  sources: see [1966Ka12](#), [1967He02](#), [1970He25](#), and [1971PI03](#); measured nuclear moments, isomer shifts ( $66.7\gamma$ ,  $75.9\gamma$ ),  $\delta(66.7\gamma)$ ,  $T_{1/2}(75.9$  level).

Other: [1968He23](#).

 $^{171}\text{Yb}$  Levels

E(level) <sup>†</sup>	J $\pi$ <sup>†</sup>	T <sub>1/2</sub>	Comments
0.0	1/2 <sup>-</sup>	stable	
66.7	3/2 <sup>-</sup>	0.87 ns <i>IO</i>	T <sub>1/2</sub> : from <a href="#">1966He09</a> , Mossbauer measurements.
75.9	5/2 <sup>-</sup>	≥0.80 ns	T <sub>1/2</sub> : 0.86 ns $\delta$ without correction for broadening due to absorber thickness in Mossbauer measurements of <a href="#">1967He02</a> . Other: <a href="#">1966Ka12</a> .

<sup>†</sup> From Adopted Levels; rounded value for E(level).

 $\gamma(^{171}\text{Yb})$ 

E $\gamma$ <sup>†</sup>	E <sub>i</sub> (level)	J $\pi$ <sub>i</sub>	E <sub>f</sub>	J $\pi$ <sub>f</sub>	Comments
66.7	66.7	3/2 <sup>-</sup>	0.0	1/2 <sup>-</sup>	$\delta$ : 0.671 22 ( <a href="#">1966Gu07</a> ); 0.70 4, positive relative E2-M1 phase ( <a href="#">1966He09</a> ).
75.9	75.9	5/2 <sup>-</sup>	0.0	1/2 <sup>-</sup>	

<sup>†</sup> Rounded value from Adopted Gammas.

$^{171}\text{Yb}(\gamma,\gamma)$ : MossbauerLevel Scheme