

$^{142}\text{Ho}$   $\epsilon\text{p}$  decay (0.4 s)    2001Xu02

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	N. Nica	NDS 187,1 (2023)	12-Oct-2022

Parent:  $^{142}\text{Ho}$ : E=0.0;  $J^\pi=(7^-, 8^+)$ ;  $T_{1/2}=0.4$  s  $I$ ;  $Q(\epsilon\text{p})=10000$  syst; % $\epsilon\text{p}$  decay=?

$^{142}\text{Ho}$ -E, $J^\pi$ , $T_{1/2}$ : From 2011Jo05.

$^{142}\text{Ho}$ - $Q(\epsilon\text{p})$ : 10000 410 (2021Wa16).

2001Xu02:  $^{106}\text{Cd}(^{40}\text{Ca}, 3\text{np})$  E=232 MeV at the cyclotron of IMP Lanzhou. Used He jet and tape transport, Si surface barrier detectors and HPGe detectors. Measured  $\beta$ -delayed proton spectra,  $E\gamma$ ,  $I\gamma$ , p- $\gamma$  coin,  $T_{1/2}(^{141}\text{Ho})$ .

 $^{141}\text{Tb}$  Levels

$E(\text{level})^\dagger$	$J^\pi{}^\ddagger$
0.0+x	(11/2 $^-$ )
307.3+x 2	(15/2 $^-$ )
811.1+x 4	(19/2 $^-$ )

$^\dagger$  From Adopted Levels, Gammas dataset.

 $\gamma(^{141}\text{Tb})$ 

$E_\gamma{}^\ddagger$	$E_i(\text{level})$	$J_i^\pi$	$E_f$	$J_f^\pi$
307.3 2	307.3+x	(15/2 $^-$ )	0.0+x	(11/2 $^-$ )
503.8 <sup>‡#</sup> 3	811.1+x	(19/2 $^-$ )	307.3+x	(15/2 $^-$ )

$^\dagger$  From Adopted Levels, Gammas dataset.

$^\ddagger$   $\gamma$  ray swamped in the background in Fig. 1 “The measured  $\gamma$ -ray spectrum in coincidence with 2.5-6.5 MeV protons” of 2001Xu02 reason for which this  $\gamma$  ray and its proton branch are uncertain.

# Placement of transition in the level scheme is uncertain.

Delayed Protons ( $^{141}\text{Tb}$ )

$E(^{141}\text{Tb})$	$I(p)^\dagger$
307.3+x	100
811.1+x	10 <sup>‡</sup>

$^\dagger$  Normalized to 100 for proton branch to 307.3+y.

$^\ddagger$  Estimated by 2001Xu02.

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Legend

Decay Scheme