

Adopted Levels

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

$Q(\beta^-)=3.2\times 10^3$  6;  $S(n)=6.35\times 10^3$  60;  $S(p)=8150$  SY;  $Q(\alpha)=-1020$  SY [2017Wa10](#)

$\Delta S(p)=630$ ;  $\Delta Q(\alpha)=630$  (2017Wa310).

$S(2n)=11860$  600;  $S(2p)=18770$  (syst) 670 ([2017Wa10](#)).

Identification: observation of known  $^{171}\text{Er}$  transitions in  $\beta^-$  decay daughter ([1990Ch34](#)).  $T_{1/2}$  agrees with predicted value (=50 s ([1989Ry04](#))).

Production:  $^{176}\text{Yb}$  or  $^{170}\text{Er}$  bombardment of natural tungsten ([1990Ch34](#)).

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

E(level)	$J^\pi$	$T_{1/2}$	Comments
0.0	(7/2 <sup>-</sup> )	53 s 2	$\% \beta^- = 100$ $J^\pi$ : g.s. configuration probably 7/2[523], as established for lighter odd-mass Ho nuclei ( $^{157}\text{Ho}$ to $^{169}\text{Ho}$ ); slight changes in deformations from $^{164}\text{Er}$ to $^{170}\text{Er}$ support assignment. $T_{1/2}$ : weighted average of 56 s 4 ( <a href="#">1990Ch34</a> , B(t)), 54 s 3 ( <a href="#">1990Ch34</a> , $\gamma(t)$ ), and 47 s 5 ( <a href="#">1989Ry04</a> ). Data from <a href="#">1990Ch34</a> are presumed to supersede preliminary data from X(t) in <a href="#">1989Ch05</a> (49 s 5).