

Adopted Levels

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	N. Nica	NDS 176, 1 (2021)	1-May-2021

$Q(\beta^-) = -6.49 \times 10^3$  14;  $S(n) = 9460$  60;  $S(p) = 260$  60;  $Q(\alpha) = 5451$  5    2021Wa16  
 $S(2n) = 20850$  210 (syst),  $S(2p) = 3190$  60,  $Q(\epsilon p) = 6600$  70 (2021Wa16).  
Additional information 1.

<sup>160</sup>Ta Levels

Cross Reference (XREF) Flags

- A    <sup>164</sup>Re  $\alpha$  decay (0.85 s)
- B    <sup>164</sup>Re  $\alpha$  decay (0.86 s)

E(level)	T <sub>1/2</sub>	XREF	Comments
0.0?	1.55 s 4	A	E(level): level assumed to be the g.s., but this assumption is not yet definitely established. T <sub>1/2</sub> : from $\alpha(t)$ measurements on the 5413 5 $\alpha$ line (1996Pa01). Other values: 1.7 s 2 (1992Ha10); 1.2 s 3 (1986Ru05). $\% \epsilon + \% \beta^+ = 68$ , $\% \alpha = 32$ , based on theoretically derived partial half-life values for $\alpha$ and $\beta$ decay (2019Mo01).
0.0+x?	1.7 s 2	B	E(level): value not known. It is assumed that this is not the g.s., but this is not established. T <sub>1/2</sub> : from 1996Pa01, based on observation of a 5313 5 $\alpha$ line which they appear to assign to a level that is different from the one with T <sub>1/2</sub> =1.55 s.