

Adopted Levels

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	C. W. Reich	NDS 112,2497 (2011)	1-Jun-2011

$Q(\beta^-) = -9.7 \times 10^3$ syst; $S(n) = 9.3 \times 10^3$ syst; $S(p) = 1.97 \times 10^3$ syst; $Q(\alpha) = 5923.4$ 2012Wa38

Note: Current evaluation has used the following Q record \$ -9531 syst 9116 syst 1820 syst 5922.8 36 2009AuZZ.

$Q(\beta^-)$, $S(n)$, $S(p)$: the uncertainties assigned to these estimated values by 2009AuZZ are as follows: for $Q(\beta^-)$, 286; for $S(n)$, 286; and, for $S(p)$, 215.

For $Q(\beta^-)$ and $S(n)$, 2003Au03 report the following: for $Q(\beta^-)$, -9530 290; for $S(n)$, 9120 290. 2003Au03 report the same values for $S(p)$ and $Q(\alpha)$ as those listed by 2009AuZZ, although with somewhat different uncertainties.

Additional information 1.

All data are from the α decay of ^{161}W to ^{157}Hf . See, also, the ^{165}Os α Decay data set.

 ^{161}W Levels

E(level)	$T_{1/2}$	Comments
0	409 ms 18	$\% \alpha = 73.3$; $\% \epsilon + \% \beta^+ = 27.3$ E(level): The evaluator assumes the α decay half-life is associated with the ground state. $T_{1/2}$: from 1996Pa01. Other: 410 ms 40 (1979Ho10). $\% \epsilon + \% \beta^+$: computed by the evaluator assuming that this is the only other significant decay mode for ^{161}W . $\% \alpha$: measured value (1996Pa01). Others: 90% 29 (1989Wo02); 82% 26 (1981Ho10).