

Adopted Levels

<u>Type</u>	<u>Author</u>	<u>History Citation</u>	<u>Literature Cutoff Date</u>
Full Evaluation	C. Morse	NDS 182, 130 (2022).	14-Sep-2021

$Q(\beta^-) = -3409$  SY;  $S(n) = 5492$  SY;  $S(p) = 3828$  SY;  $Q(\alpha) = 9460$  SY [2021Wa16](#)

$\Delta Q(\beta^-) = 430$ ,  $\Delta S(n) = 371$ ,  $\Delta S(p) = 406$ ,  $\Delta Q(\alpha) = 87$  ([2021WA16](#)).

$S(2n) = 12945$  SY [305](#),  $S(2p) = 6579$  SY [460](#) ([2021WA16](#)).

$^{271}\text{Hs}$  has been observed in gas-phase chemistry experiments at GSI ([2006DV01](#), [2008DV02](#)). Events were identified based on the observation of chains of  $\alpha$ -decaying nuclei correlated in time and position.

Half-lives, branching ratios, and  $\alpha$ -decay energies in this evaluation have been computed from the individual events listed in the references above. Half-life uncertainties have been computed according to the method of [1984SC13](#). An additional 10 keV systematic uncertainty is assumed for the  $\alpha$ -decay energies, which is added in quadrature to the averaged statistical uncertainty.

 $^{271}\text{Hs}$  Levels

<u>E(level)</u>	<u>Comments</u>
0	$\% \alpha = 100$ ; $\% \text{SF} < 15$ E(level): Assumed ground state.