Adopted Levels

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	C. Morse	NDS 182, 167 (2022)	14-Sep-2021

Q(β^-)=−3015 *SY*; S(n)=5309 *SY*; S(p)=4309 *SY*; Q(α)=9.65×10^3 *6* 2021Wa16
ΔQ(β^-)=565, ΔS(n)=632, ΔS(p)=650 (2021WA16).
S(2n)=12066 SY *464*, S(2p)=7428 SY *699* (2021WA16).

^{273}Hs has been observed as the α-decay daughter of ^{277}Ds at LBNL (2010EL06) and JINR (2015UT02,2018UT02). Events were identified based on the observation of chains of correlated α decays, terminated by spontaneous fission. Comparison of the properties of these chains with previous observations allowed individual decays to be assigned to specific nuclei.

Half-lives, branching ratios, and α-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 α-decay energies, which is added in quadrature to the averaged statistical uncertainty.

^{273}Hs Levels

Cross Reference (XREF) Flags

A ^{277}Ds α decay (3.5 ms)

E(level)	$T_{1/2}$	XREF	Comments
0	0.51 s *+30−13*	A	%α=100; %SF≤12.5 E(level): Assumed ground state. $T_{1/2}$: From seven events.