

Adopted Levels

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

$Q(\beta^-)=-3315$ SY; $S(n)=5519$ SY; $S(p)=3509$ SY; $Q(\alpha)=10900$ SY [2021Wa16](#)

$\Delta Q(\beta^-)=611$, $\Delta S(n)=674$, $\Delta S(p)=661$, $\Delta Q(\alpha)=119$ ([2021WA16](#)).

$S(2n)=12716$ SY [519](#), $S(2p)=5978$ SY [711](#) ([2021WA16](#)).

^{277}Ds has been observed as the α -decay daughter of ^{281}Cn at LBNL ([2010EL06](#)) and JINR ([2015UT02,2018UT02](#)). Events were identified by the observation of chains of α -decaying nuclei terminated by spontaneous fission. Comparison of the properties of the chains with those previously observed in the literature allowed 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.

 ^{277}Ds LevelsCross Reference (XREF) Flags

A ^{281}Cn α decay (0.18 s)

<u>E(level)</u>	<u>$T_{1/2}$</u>	<u>XREF</u>	<u>Comments</u>
0	3.5 ms +21-10	A	% α =100; %SF \leq 12.5 E(level): Assumed ground state. $T_{1/2}$: From seven events.