

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

$Q(\beta^-) = -3863$ SY; $S(n) = 5779$ SY; $S(p) = 3228$ SY; $Q(\alpha) = 1.043 \times 10^4$ 6 [2021Wa16](#)

$\Delta Q(\beta^-) = 498$, $\Delta S(n) = 706$, $\Delta S(p) = 664$ ([2021WA16](#)).

$S(2n) = 13216$ SY 560, $S(2p) = 5655$ SY 724, $Q(\epsilon p) = 338$ SY 847 ([2021WA16](#)).

^{281}Cn has been observed as the α -decay daughter of ^{285}Fl 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 decay properties of these chains to those in the literature allowed specific decays to be assigned to individual 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.

 ^{281}Cn LevelsCross Reference (XREF) Flags

A ^{285}Fl α decay (101 ms)

<u>E(level)</u>	<u>$T_{1/2}$</u>	<u>XREF</u>	<u>Comments</u>
0	0.18 s $+10^{-5}$	A	$\% \alpha = 100$; $\% \text{SF} \leq 12.5$ E(level): Assumed ground state. $T_{1/2}$: From seven events.