

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

$S(n)=6099$ SY; $S(p)=2343$ SY; $Q(\alpha)=1.162\times 10^4$ eV [2021Wa16](#)

$\Delta S(n)=523$, $\Delta S(p)=647$ ([2021WA16](#)).

$S(2p)=3912$ SY 373, $Q(ep)=2504$ SY 569 ([2021WA16](#)).

^{277}Cn has been observed in the $^{208}\text{Pb}(^{70}\text{Zn},n)$ reaction at GSI ([1996HO13,2002HO11](#)) and RIKEN ([2007MO09,2013SU04](#)).

Events were identified by the observation of chains of correlated α decays. Comparison of the properties of these chains with those previously observed allowed individual decays to be assigned to specific nuclei.

[1996HO13](#) reports two decay chains. However, the data is reanalyzed in [2002HO11](#) and the chain from 01-Feb-1998 is found to be reported in error.

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}Cn Levels

<u>E(level)</u>	<u>$T_{1/2}$</u>	<u>Comments</u>
0	0.61 ms $+46-18$	$\% \alpha = 100$; $\% \text{SF} < 17$ E(level): Assumed ground state. $T_{1/2}$: From five events.