## $^{281}_{110} \mathrm{Ds}_{171}$

## **Adopted Levels**

Type Author Citation Literature Cutoff Date

Full Evaluation C. Morse NDS 182, 167 (2022) 14-Sep-2021

 $Q(\beta^{-}) = -2060 \text{ SY}; S(n) = 5119 \text{ SY}; S(p) = 4526 \text{ SY}; Q(\alpha) = 9473 \text{ SY}$  2021Wa16

 $\Delta Q(\beta^{-})=918, \ \Delta S(n)=896, \ \Delta S(p)=776, \ \Delta Q(\alpha)=208 \ (2021WA16).$ 

S(2n)=11894 SY 780, S(2p)=7805 SY 776 (2021WA16).

<sup>281</sup>Ds has been observed as the  $\alpha$ -decay daughter of <sup>285</sup>Cn at JINR (2000OG05,2002OG09,2004OG07), GSI (2011GA19,2012HO12) and RIKEN (2017KA66); and in gas-phase chemistry experiments at JINR (2010WI14) and GSI (2014YA33). Events were identified by the observation of chains of  $\alpha$ -decaying nuclei terminated by spontaneous fission. Comparison of the properties of the decay chains with those in the literature allowed individual decays to be assigned to specific nuclei.

Other: One decay chain containing  $^{281}$ Ds is reported in 1999OG10, but these results have not been reproduced. 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.

## <sup>281</sup>Ds Levels

## Cross Reference (XREF) Flags

A  $^{285}$ Cn  $\alpha$  decay (33 s)

 $\begin{array}{ccc} \underline{E(level)} & \underline{T_{1/2}} & \underline{XREF} \\ \end{array}$ 

Comments

%SF=94; %α=6

E(level): Assumed ground state.

 $T_{1/2}$ : From 18 events.