^{280}Ds

The first observation of ^{280}Ds was reported in 2021 by Såmark-Roth et al. in "Spectroscopy Along Flerovium Decay Chains: Discovery of ^{280}Ds and an Excited State in ^{282}Cn" (2021Sa01). A ^{48}Ca beam accelerated to 6.021(2) MeV/nucleon by the Universal Linear Accelerator (UNILAC) at the GSI Helmholtzzentrum für Schwerionenforschung, in Darmstadt, Germany, was delivered to a rotating target wheel of enriched ^{244}Pu deposited on titanium foils. Reaction products were separated by the recoil separator TASCA and identified in the TASISpec decay station. "In one case, a Q_α = 9.46(1)-MeV decay from ^{284}Cn into ^{280}Ds was observed, with ^{280}Ds fissioning after only 518 μs." The spontaneous fission of ^{280}Ds had previously been reported as tentative (2014MoZU) or uncertain (2017Ka66).

Adapted from reference (2023Th03)

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