^{255}Db

Pore et al. published the discovery of ^{255}Db in the 2024 article "Spontaneous fission of the odd-Z isotope ^{255}Db" (2024Po17). Beams of 241-253 MeV ^{51}V accelerated by the Berkeley 88-inch cyclotron impinged on 0.5 mg/cm^2 thick ^{206}Pb targets forming ^{2}55Db in the reaction ^{206}Pb(^{51}V,2n). The evaporation residues were selected with the Berkeley Gas-filled Separator (BGS) and deposited in a double-sided silicon-strip detector which also recorded subsequent α particles. "The average half-life of all of the observed ^{255}Db events, including both α and SF decays, is $2.6^{+0.4}_{-0.3}$ s." The identification of ^{255}Db has been previously reported in a conference proceeding (1976FlZN) and an internal report (2005LeZN).

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