^{251}Fm

In the 1957 paper "Production and properties of the nuclides fermium-250, 251, and 252" Amiel et al. described the observation of ^{251}Fm (1957Am47). A ^{249}Cf target was bombarded with 20−40 MeV α particles from the Berkeley 60-in. cyclotron forming ^{251}Fm in (α,2n) reactions. Subsequent α decay was measured following chemical separation. "The element identification was established by means of a cation exchange column separation using alphahydroxy isobutyric acid as eluant. Mass assignments were based on the excitation functions. The properties of these nuclides are summarized in [the table]. The half-lives given are good to about ±10% and the alpha particle energies to ±0.05 Mev." The measured half-life for ^{251}Fm was 7 h.

Adapted from reference (2013Th02)

1957Am47 S. Amiel, A. Chetham-Strode Jr., G. R. Choppin, A. Ghiorso *et al.*, Phys. Rev. **106**, 553 (1957).

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