

²⁴⁵Fm

Nurmia et al. reported the discovery of ²⁴⁵Fm in the 1967 article “Spontaneous fission of light fermium isotopes; New nuclides ²⁴⁴Fm and ²⁴⁵Fm” (1967Nu01). A ¹⁶O beam from the Berkeley heavy-ion accelerator Hilac bombarded a ²³³U target forming ²⁴⁵Fm in (4n) fusion-evaporation reactions, respectively. For ²⁴⁵Fm recoil products were moved in front of semiconductor detectors with a conveyor-gas system to measure α -particles and spontaneous fission and an α -decay half-life of 4.2(13) s was measured: “The activity was assigned to ²⁴⁵Fm on the basis of its production in the cross-bombardments with the expected excitation functions and from α decay systematics.”

Adapted from reference (2013Th02)

1967Nu01 M. Nurmia, T. Sikkeland, R. Silva, and A. Ghiorso, Phys. Lett. B **26**, 78 (1967).

2013Th02 M. Thoennessen, At. Data Nucl. Data Tables **99**, 312 (2013).

Please cite this abstract as: “FRIB Nuclear Data Group, *Discovery of Nuclides Project*, Isotope Database, doi:[10.11578/frib/2279152](https://doi.org/10.11578/frib/2279152)”