

⁷⁵Fe

⁷⁵Fe was identified for the first time by Tarasov et al. in 2013 in “Production cross sections from ⁸²Se fragmentation as indications of shell effects in neutron-rich isotopes close to the drip-line” (2013Ta14). A 139 MeV/nucleon primary ⁸²Se beam from the Coupled Cyclotron Facility at the National Superconducting Cyclotron Laboratory at Michigan State University was used to produce ⁷⁵Fe in projectile fragmentation reactions. The produced isotopes were separated and identified with a two-stage separator consisting of the A1900 fragment separator and the S800 analysis beam line. “One event was registered consistent with ⁷⁰Cr and another one with ⁷⁵Fe.”

Adapted from reference (2014Th03)

2013Ta14 O. B. Tarasov, M. Portillo, D. J. Morrissey, A. M. Amthor *et al.*, Phys. Rev. C **87**, 054612 (2013).

2014Th03 M. Thoennessen, Int. J. Mod. Phys. E **23**, 1430002 (2014).

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)”