

## $^{114}\text{Tc}$

In 1994, Bernas et al. published the discovery of  $^{114}\text{Tc}$  in “Projectile Fission at Relativistic Velocities: A Novel and Powerful Source of Neutron-Rich Isotopes Well Suited for In-Flight Isotopic Separation” 1994 ([1994Be24](#)). The isotopes were produced using projectile fission of  $^{238}\text{U}$  at 750 MeV/nucleon on a lead target at GSI, Germany. “Forward emitted fragments from  $^{80}\text{Zn}$  up to  $^{155}\text{Ce}$  were analyzed with the Fragment Separator (FRS) and unambiguously identified by their energy-loss and time-of-flight.” This experiment yielded 53 counts of  $^{114}\text{Tc}$ .

Adapted from reference ([2012Ny02](#))

[1994Be24](#) M. Bernas, S. Czajkowski, P. Armbruster, H. Geissel *et al.*, Phys. Lett. B **331**, 19 (1994).

[2012Ny02](#) A. Nystrom and M. Thoennessen, At. Data Nucl. Data Tables **98**, 95 (2012).

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)”