

⁸⁸Tc

In “First Observation of the Nuclei ⁸⁷Tc and ⁸⁸Tc” Rudolph et al. describes the first observation of ⁸⁸Tc in 1991 ([1991Ru06](#)). Enriched ⁵⁸Ni and ⁴⁰Ca targets were bombarded with 110 MeV ³²S and 170 MeV beams, respectively. ⁸⁸Tc was formed in (p,n) fusion evaporations. Isotopes were separated with the Daresbury recoil separator and identified with coincident γ rays measured with POLLYTESSA, a 19 element Compton-suppressed Ge-detector array. “From $\gamma\gamma$ coincidence data, a decay scheme of 11 transitions was constructed for ⁸⁸Tc, the ground state of which is suggested to have $I^\pi = 7^-$ or 8^+ .”

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

[1991Ru06](#) D. Rudolph, F. Cristancho, C. J. Gross, A. Jungclaus *et al.*, J. Phys. G **17**, L113 (1991).

[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)”