^{183}Tm

Tarasov et al. published the discovery of ^{183}Tm in the 2024 paper "Observation of New Isotopes in the Fragmentation of ^{198}Pt at FRIB" (2024Ta07). A 186 MeV/nucleon ^{198}Pt beam accelerated by the Facility of Rare Isotope Beams (FRIB) at Michigan State University irradiated a 3.54 mm thick rotating carbon target. Fragmentation products were separated with the Advanced Rare Isotope Separator (ARIS). The fragments were implanted in a silicon PIN diode telescope and identified event-by-event by their magnetic rigidity, time of flight, energy losses, and total kinetic energy. "Over the course of the experiment, five new isotopes, namely, ^{182}Tm (29 events), ^{183}Tm (7), ^{186}Yb (27), ^{187}Yb (3), ^{190}Lu (5), were observed for the first time."

2024Ta07 O. B. Tarasov, A. Gade, K. Fukushima, M. Hausmann *et al.*, Phys. Rev. Lett. **132**, 072501 (2024).

Please cite this abstract as: "FRIB Nuclear Data Group, *Discovery of Nuclides Project*, Isotope Database, doi:10.11578/frib/2279152"