

¹⁹⁰Lu

Tarasov et al. published the discovery of ¹⁹⁰Lu in the 2024 paper “Observation of New Isotopes in the Fragmentation of ¹⁹⁸Pt at FRIB” ([2024Ta07](#)). A 186 MeV/nucleon ¹⁹⁸Pt 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, ¹⁸²Tm (29 events), ¹⁸³Tm (7), ¹⁸⁶Yb (27), ¹⁸⁷Yb (3), ¹⁹⁰Lu (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).

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