

¹⁷⁹Pb

Andreyev et al. announced the discovery of ¹⁷⁹Pb in the 2010 paper “The new isotope ¹⁷⁹Pb and α -decay properties of ¹⁷⁹Tl^m” (2010An01). A 232 MeV ⁴⁰Ca beam from the GSI UNILAC bombarded enriched ¹⁴⁴Sm targets forming ¹⁷⁹Pb in the (5n) fusion-evaporation reaction. Residues were separated with the velocity filter SHIP and implanted in a position sensitive silicon strip detector, which also recorded subsequent α decay. “The half-life value $T_{1/2}({}^{179}\text{Pb})=3.5^{+1.4}_{-0.8}$ ms was deduced by using the data for the 12 correlated events.”

Adapted from reference (2013Fr04)

2010An01 A. N. Andreyev, S. Antalic, D. Ackermann, T. E. Cocolios *et al.*, J. Phys. G **37**, 035102 (2010).

2013Fr04 C. Fry and M. Thoennessen, At. Data Nucl. Data Tables **99**, 365 (2013).

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