

¹⁷⁵Au

Cabot et al. reported the first discovery of ¹⁷⁵Au in 1975 at Orsay, France in the paper “Ca induced reactions on ¹⁴¹Pr and ¹⁵⁰Sm: New gold and lead isotopes ¹⁷⁶Au, ¹⁷⁵Au, ¹⁸⁵Pb” (1975Ca06). ¹⁷⁵Au was produced in the reaction ¹⁴¹Pr(⁴⁰Ca,6n) and identified by α -decay measurements. “Their shifts of ≈ 12 MeV excitation energy with reference to the ¹⁷⁷Au curves lead us to assign these transitions to the α -decay of ¹⁷⁶Au produced by (⁴⁰Ca,5n). Similarly the behavior of the yield of the 6.44 MeV peak indicates ¹⁷⁵Au as the isotope associated with it.”

Adapted from reference (2010Sc35)

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