^{154}Lu

In the 1981 paper "New neutron deficient isotopes in the range of elements Tm to Pt" Hofmann et al. reported the first observation of ^{154}Lu (1981Ho10). Neutron deficient isotopes of elements from molybdenum to tin and vanadium to nickel targets were bombarded with ^{58}Ni and ^{107}Ag at the GSI linear accelerator UNILAC. Reaction products were separated by the SHIP velocity filter and implanted into silicon detectors. "Here, the intensity of the ^{154}Yb α line first increases corresponding to its own half-life of 410 ms followed by a decrease with $T_{1/2}$ = 960 ms corresponding to the half-life of the β emitter ^{154}Lu."

Adapted from reference (2012Gr19)

1981Ho10 S. Hofmann, G. Munzenberg, F. Hessberger, W. Reisdorf *et al.*, Z. Phys. A **299**, 281 (1981).

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