^{182}Au

^{182}Au was discovered by Hansen et al. in the 1970 paper "Studies of the α-active isotopes of mercury, gold and platinum" with the ISOLDE facility at CERN (1970Ha18). ^{182}Au was produced following spallation reactions of 600 MeV protons on a molten lead target. The isotope was identified from the growth and decay spectrum of high-energy positrons from the parent nucleus ^{182}Hg: "We have performed a half-life measurement using the high-energy positrons ... and found 19 $\pm$ 2 s."

Adapted from reference (2010Sc35)

1970Ha18 P. G. Hansen, H. L. Nielsen, K. Wilsky, M. Alpsten *et al.*, Nucl. Phys. A **148**, 249 (1970).

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