^{177}Au

^{177}Au was first observed by Siivola at Lawrence Radiation Laboratory at the University of California, Berkeley, in the 1968 article "Alpha-Active Gold Isotopes" (1968Si01). The isotope was observed in the fusion-evaporation reaction ^{168}Yb(^{18}F,9n). "All these activities are assigned to isotopes of gold because they were produced from gold compound nuclei and were not observed when the same targets were bombarded in order to make isotopes of platinum." The measured α-decay energy (6.115(10) MeV) and half-life (1.3(4) s) for ^{177}Au are listed in a table and correspond to an isomeric state. The ground state was measured seven years later by Cabot et al. (1975Ca06).

Adapted from reference (2010Sc35)

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