

^{172}Pt

The discovery of ^{172}Pt was reported in the 1981 article “Alpha Decay Characteristics of Neutron Deficient Isotopes of Pt Isotopes Produced in ^{63}Cu Induced Reactions on ^{112}Sn and ^{113}In Targets” by Della Negra et al. ([1981De22](#)). ^{112}Sn and ^{113}In targets were bombarded with 245-300 MeV ^{63}Cu beams from the ALICE accelerator at Orsay. The evaporation residues were transported with a helium jet and deposited onto a metallic surface in front of an annular silicon detector. “ ^{173}Pt is produced in this case by the reaction $^{112}\text{Sn}(^{63}\text{Cu},\text{pn})$ and the two other curves corresponding to $(\text{Cu},\text{p}2\text{n})$ and $(\text{Cu},\text{p}3\text{n})$ leading to ^{172}Pt and ^{171}Pt . The identification was confirmed by the study of [the] $^{113}\text{In}(\text{Cu},\text{xn})\text{Pt}^{176-x}$ excitation function for $3 \leq x \leq 5$.”

Adapted from reference ([2011Am01](#))

[1981De22](#) S. Della Negra, C. Deprun, D. Jacquet, and Y. Le Beyec, *Z. Phys. A* **300**, 251 (1981).

[2011Am01](#) S. Amos, J. L. Gross, and M. Thoennessen, *At. Data Nucl. Data Tables* **97**, 383 (2011).

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