

^{113}Ag

In the 1949 paper “Radioactive Silver Isotopes Produced by Photo-Disintegration of Cadmium”, Duffield and Knight reported the discovery of ^{113}Ag (1949Du06). Cadmium oxide enriched with ^{114}Cd was bombarded with 21 MeV betatron x-rays at the University of Illinois. ^{113}Ag was produced in the (γ,p) reaction and identified following chemical separation. “The silver from the Cd 114 decayed with a half-life of 5.3 hr. over five half-lives, thus establishing that it was Ag 113 made by Cd 114 (γ,p) .” The 1948 Table of Isotopes (1948Se40) made the assignment of the 5.3 h half-life based on an unpublished report of the Plutonium Project (1947TuZZ).

Adapted from reference (2010Sc10)

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