^{232}Pu

In the 1973 article "The decay of the neutron deficient plutonium isotopes 232, 233, and 234", Jäger et al. identified ^{232}Pu (1973Ja06). UO_2 targets, enriched in ^{233}U were bombarded with 35 to 55 MeV alpha particles from the Karlsruhe Isochronous Cyclotron. Following chemical separation, α- and γ-ray spectra were measured with a silicon surface-barrier and a Ge(Li) detector, respectively. "The half-life of 34.1$\pm$0.7 minutes was obtained by the analysis of undisturbed α-peaks originating from the members of the α-decay family, e.g. ^{224}Th, ^{220}Ra, ^{212}Po." The observation of ^{232}Pu had previously been reported in an internal report (1951OrZZ).

Adapted from reference (2013Fr02)

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Please cite this abstract as: "FRIB Nuclear Data Group, *Discovery of Nuclides Project*, Isotope Database, doi:10.11578/frib/2279152"