^{231}Pu

In the 1999 paper "New plutonium isotope: ^{231}Pu" Laue et al. reported the first observation of ^{231}Pu (1999La14). A stack of eleven ^{233}U targets was irradiated with a 47.1 MeV ^{3}He beam from the Berkeley 88-in. cyclotron. Alpha-particle correlations were measured with thirteen passivated ion implanted silicon (PIPS) detectors following chemical separation. "^{231}Pu was positively identified. The half-life was determined to be (8.6$\pm$0.5) min from the analysis of the α-α-correlations of the ^{223}Th, ^{219}Ra, and ^{215}Rn daughters of its α-decay branch."

Adapted from reference (2013Fr02)

1999La14 C. A. Laue, K. E. Gregorich, R. Sudowe, M. B. Hendricks *et al.*, Phys. Rev. C **59**, 3086 (1999).

2013Fr02 C. Fry and M. Thoennessen, At. Data Nucl. Data Tables **99**, 96 (2013).

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