

^{230}Np

In the 1968 article “New neptunium isotopes, ^{230}Np and ^{229}Np ” Hahn et al. reported the discovery of ^{230}Np (1968Ha14). Enriched ^{233}U targets were bombarded with 32–41.6 MeV protons from the Oak Ridge Isochronous Cyclotron forming ^{230}Np in (p,4n) reactions. Reaction products were implanted on a catcher foil which was periodically rotated in front of a surface barrier Si(Au) detector. “The ^{226}Pa chain is clearly seen to grow in with a 1.8 min half-life and reach transient equilibrium with a parent of 4.6 min half-life. The 6.66 MeV α -particle is thus assigned to the α -precursor of ^{226}Pa , namely ^{230}Np .” The measured half-life was 4.6(3) min.

Adapted from reference (2013Fr02)

1968Ha14 R. L. Hahn, M. F. Roche, and K. S. Toth, Nucl. Phys. A **113**, 206 (1968).
2013Fr02 C. Fry and M. Thoennessen, At. Data Nucl. Data Tables **99**, 96 (2013).

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