

¹⁴⁰Nd

The discovery of ¹⁴⁰Nd was reported by Wilkinson and Hicks in 1949: “Radioactive Isotopes of the Rare Earth Elements II. Neodymium Isotopes” (1949Wi02). Deuterons of 9 and 19 MeV and protons of 10 MeV from the Berkeley 60-in. cyclotron bombarded praseodymium targets. Positrons, X- and γ -rays were measured following chemical separation. “The observed radiations of the 3.3-day activity are consistent with the isotope, Nd¹⁴⁰, decaying by orbital electron capture, in equilibrium with its positron emitting Pr¹⁴⁰ daughter.”

Adapted from reference (2012Gr02)

- 1949Wi02 G. Wilkinson and H. G. Hicks, Phys. Rev. **75**, 1687 (1949).
2012Gr02 J. L. Gross, J. Claes, J. Kathawa, and M. Thoennessen, At. Data Nucl. Data Tables **98**, 75 (2012).

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