^{149}Nd

The first detection of ^{149}Nd was reported in 1938 by Pool and Quill in "Radioactivity Induced in the Rare Earth Elements by Fast Neutrons" (1938Po05). Fast and slow neutrons were produced with 6.3 MeV deuterons from the University of Michigan cyclotron. Decay curves were measured with a Wulf string electrometer. "In order to assign the 2.0-hr. and 84-hr. periods the relative abundance of the stable nuclei and the rate of formation of the radioactive nuclei (branching ratio) must be compared... Consequently, these data suggest, in view of no other guiding information, that the 84-hr. period should be attributed to Nd^{147} and the 2-hr. period to Nd^{149}."

Adapted from reference (2012Gr02)

1938Po05 M. L. Pool and L. L. Quill, Phys. Rev. **53**, 437 (1938).

2012Gr02 J. L. Gross, J. Claes, J. Kathawa, and M. Thoennessen, At. Data Nucl. Data Tables **98**, 75 (2012).

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