^{151}Nd

The first detection of ^{151}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. "The very much greater neutron equivalent of the cyclotron is easily evident from the fact that in four hours of slow neutron bombardment three periods were easily evident, 21 min., 2.0 hr. and 84 hr... Since the 21-min. period is produced by slow but not by fast neutron bombardment and since Nd^{150} is the heaviest neodymium isotope, it is reasonable to assign this activity to Nd^{151}."

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).

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