^{201}Rn

Valli et al. reported the discovery of ^{201}Rn in the 1967 article "Alpha-decay properties of neutron-deficient isotopes of emanation" (1967Va17). Platinum, gold, mercury, and thallium targets were bombarded with ^{16}O, ^{14}N, and ^{12}C beams from the Berkeley HILAC. Alpha-particle spectra were measured with a Si(AU) detector following chemical separation. "Emanation-201: ...The most prominent of the groups,at 6.768 MeV, had a half-life of 3$\pm$1 sec. We tentatively assign it to ^{201}Em on the following incomplete evidence... " This half-life corresponds to an isomeric state and the ground state half-life of 7.0(4) s was measured four years later by Hornshoj et al. (1971Ho01).

Adapted from reference (2013Fr09)

1967Va17 K. Valli, M. J. Nurmia, and E. K. Hyde, Phys. Rev. **159**, 1013 (1967).

1971Ho01 P. Hornshoj, K. Wilsky, P. G. Hansen, A. Lindahl, and O. B. Nielsen, Nucl. Phys. A **163**, 277 (1971).

2013Fr09 C. Fry and M. Thoennessen, At. Data Nucl. Data Tables **99**, 497 (2013).

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