^{162}Ho

"Nuclear spectroscopy of neutron-deficient rare earths (Tb through Hf)" was published in 1957 by Mihelich et al. describing the observation of ^{162}Ho (1957Mi67). A dysprosium oxide target was irradiated with 22 MeV protons from the ORNL 86-inch cyclotron. The resulting activities were measured with a conversion electron spectrograph and a scintillation counter following chemical separation. "Ho^{162}(67 min) $\rightarrow$ Dy^{162}: We have listed the transitions assigned to Ho^{162} in [the table]. The mass assignment is made on the basis of yields from targets enriched in various masses." This half-life corresponds to an isomeric state and the ground state half-life of 11.8 m was reported seven years later by Jorgensen et al. (1961Jo10). A previously reported half-life of 65.0(5) d (1950Wi13) was incorrect (1954Ha19).

Adapted from reference (2013Fr10)

1950Wi13 G. Wilkinson and H. G. Hicks, Phys. Rev. **79**, 815 (1950).

1954Ha19 T. H. Handley, Phys. Rev. **94**, 945 (1954).

1957Mi67 J. W. Mihelich, B. Harmatz, and T. H. Handley, Phys. Rev. **108**, 989 (1957).

1961Jo10 M. Jorgensen, O. B. Nielsen, and O. Skilbreid, Nucl. Phys. **24**, 443 (1961).

2013Fr10 C. Fry and M. Thoennessen, At. Data Nucl. Data Tables **99**, 520 (2013).

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