

^{173}Er

Pursiheimo et al. observed ^{173}Er in 1972 and reported their results in “The decay of 1.4 Min ^{173}Er ” (1972Pu02). $^{176}\text{Yb}_2\text{O}_3$ and Yb_2O_2 targets were irradiated with 14–15 MeV neutrons from the Helsinki SAMES T 400 neutron generator and ^{173}Er was produced in (n,α) reactions. Gamma- and beta-ray spectra were measured with Ge(Li), NaI(Tl) and plastic scintillation detectors. “A 1.4 ± 0.1 min activity which is assigned to the β^- -decay of ^{173}Er has been produced with 14-15 MeV neutrons through the reaction $^{176}\text{Yb}(n,\alpha)^{173}\text{Er}$.” A previously reported half-life of 12.0(3) min (1968Ih01) was incorrect.

Adapted from reference (2013Fr10)

- 1968Ih01 H. Ihochi and T. E. Ward, Phys. Rev. **166**, 1173 (1968).
1972Pu02 V. Pursiheimo, T. Tuurnala, and T. Raunemaa, Z. Phys. **252**, 283 (1972).
2013Fr10 C. Fry and M. Thoennessen, At. Data Nucl. Data Tables **99**, 520 (2013).

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