

¹⁶⁷Dy

¹⁶⁷Dy was first observed by Wille and Fink as reported in the 1960 paper “Activation cross sections for 14.8-Mev neutrons and some new radioactive nuclides in the rare earth region” ([1960Wi10](#)). An enriched ¹⁷⁰Er sample was irradiated with neutrons produced from the ³H(d,n)⁴He reaction from the Arkansas Cockcroft-Walton accelerator. Decay curves were measured with an aluminum-walled, methane-flow beta-proportional counter. “Therefore, it seems likely that the 40-sec activity is Ho¹⁷⁰ from the Er¹⁷⁰(n,p) reaction and the 4.4-min period is Dy¹⁶⁷ from the Er¹⁷⁰(n,α) reaction.”

Adapted from reference ([2013Fr10](#))

[1960Wi10](#) R. G. Wille and R. W. Fink, Phys. Rev. **118**, 242 (1960).

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

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