

## <sup>149</sup>Dy

In 1958, Toth and Rasmussen observed <sup>149</sup>Dy as described in “Studies of rare earth alpha emitters” ([1958To27](#)). Praseodymium was bombarded with a beam of <sup>14</sup>N from the Berkeley 60-in. cyclotron. Decay curves of the subsequent activities were measured. “The Tb<sup>149</sup> growth curve indicates the presence of Dy<sup>149</sup>, which decays to Tb<sup>149</sup>. The growing-in period and the 4-hr tail are shown in [the figure], and from this curve we determine a half-life of  $8\pm 2$  min for Dy<sup>149</sup>.”

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

[1958To27](#) K. S. Toth and J. O. Rasmussen, Phys. Rev. **109**, 121 (1958).

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

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