

## **<sup>153</sup>Yb**

The observation of <sup>153</sup>Yb was reported by Hagberg et al. in the 1977 paper “Alpha decay of neutron-deficient ytterbium isotopes and their daughters” ([1977Ha48](#)). The CERN synchro-cyclotron was used to bombard tantalum with 600 MeV protons. <sup>153</sup>Yb was separated with the ISOLDE on-line mass separator facility and  $\alpha$  particles were measured with two silicon surface-barrier detectors. <sup>153</sup>Yb was identified by the growth preceding the decay of  $\alpha$  particles from <sup>153</sup>Tm. “The decay data from this experiment, shown in [the figure], determined the half-life of <sup>153</sup>Yb to be  $4.0\pm 0.5$  s.”

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

[1977Ha48](#) E. Hagberg, P. G. Hansen, J. C. Hardy, P. Hornshoj *et al.*, Nucl. Phys. A **293**, 1 (1977).

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

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