

## **<sup>166</sup>Tb**

Ichikawa et al. published the discovery of <sup>166</sup>Tb in the 1996 paper “Mass separation of neutron-rich isotopes using a gas-jet coupled thermal ion source” documenting their observation of <sup>166</sup>Tb ([1996Ic01](#)). A <sup>238</sup>U target was bombarded with 15 MeV protons from the JAERI tandem accelerator. Fission fragments were separated by mass with a gas-jet coupled to a thermal ion source and identified by measuring  $\gamma$ -ray spectra. “The first observation of a new isotope <sup>166</sup>Tb was carried out using its monoxide ions from this ion source:  $T_{1/2}({}^{166}\text{Tb}) = 21 \pm 6$  s.”

Adapted from reference ([2013Ma01](#))

[1996Ic01](#) S. Ichikawa, M. Asai, K. Tsukada, A. Osa *et al.*, Nucl. Instrum. Methods Phys. Res. A **374**, 330 (1996).

[2013Ma01](#) E. May and M. Thoennessen, At. Data Nucl. Data Tables **99**, 1 (2013).

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