

¹⁵¹Yb

In 1985, Kleinheinz et al. reported the first observation of ¹⁵¹Yb in “Beta-decay of ¹⁵¹Yb” ([1985K110](#)). A ⁸⁶Ru target was bombarded with a ⁵⁸Ni beam at the GSI in Darmstadt, Germany, and ¹⁵¹Yb was populated in the (2pn) fusion evaporation reaction. Recoil products were separated on-line and ¹⁵¹Yb was identified by measuring γ - and X-rays. “The most precise result is obtained from the X-ray data which give $T_{1/2}(^{151}\text{Yb})=1.6(2)$ s.” The reported half-life was assigned to the ground state as well as to an isomeric state.

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

[1985K110](#) P. Kleinheinz, B. Rubio, M. Ogawa, M. Piiparinen *et al.*, *Z. Phys. A* **322**, 705 (1985).

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

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