^{152}Tm

The discovery of ^{152}Tm was published in the 1980 paper "New results in the decay of ^{150}Ho and ^{152}Tm" by Liang et al. (1980Li18). Metallic erbium targets were bombarded with 200 MeV protons from the Orsay synchrocyclotron. Reaction products were separated with the on-line isotope separator ISOCELE II and positrons and γ-ray spectra were measured. "^{152}Tm: The analysis of the γ spectra shows four transitions with energies of 279.9, 422.5, 672.6 and 808.2 keV decaying with the half-life of $T_{1/2}$=5.2$\pm$0.6 s." This level corresponds to an isomeric state and the 8.0(10) s ground state was measured two years later by Nolte et al. (1982No13).

Adapted from reference (2013Fr10)

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