

^{164}Tm

The 1960 paper “The decay chain $\text{Yb}^{164} \rightarrow \text{Tm}^{164} \rightarrow \text{Er}^{164}$ ” by Abdurazakov et al. reported the discovery of ^{164}Tm (1960Ab04). A tantalum target was irradiated with 680 MeV protons from the Dubna synchrocyclotron. ^{164}Yb was produced in spallation reactions decaying to ^{164}Tb . Gamma-rays, electrons and positrons were measured following chemical separation. “The value of the Tm^{164} half-life period, averaged by more than 10 measurements, amounts to 2.0 ± 0.5 min.” The decay of ^{164}Yb to ^{164}Tm had previously been reported but no details of the decay of ^{164}Tm were given (1960Ab05). Later in the year a 2 min half-life was assigned to ^{164}Tm independently by Dalkhsuren et al. (1960Da16).

Adapted from reference (2013Fr10)

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