

## <sup>162</sup>Tb

Schneider and Münzel reported the observation of <sup>162</sup>Tb in the 1965 paper “Notiz zum Zerfall von <sup>162</sup>Tb” (1965Sc24). The Karlsruhe synchrocyclotron was used to bombard an enriched <sup>162</sup>Dy<sub>2</sub>O<sub>3</sub> target with 30 MeV deuterons. Beta- and gamma-rays were measured with a methan flow counter and a NaI(Tl) crystal, respectively. “Bei Vorgabe von 15.8 min für die <sup>163</sup>Tb-Verunreinigung lieferte die Computer-Analyse der  $\gamma$ -Abfallskurven  $7.43 \pm 0.04$  min (keine 2 h-Aktivität); dagegen lieferte die Analyse der  $\beta$ -Abfallskurve zwei Komponenten mit Halbwertszeiten von  $7.48 \pm 0.03$  und  $134 \pm 1$  min.” [With a fixed half-life for the <sup>163</sup>Tb impurities the computer analysis of the  $\gamma$ -decay curves gave  $7.43 \pm 0.04$  min (no 2 h activity); in contrast the analysis of the  $\beta$ -decay curve resulted in two components with half-lives of  $7.48 \pm 0.03$  and  $134 \pm 1$  min.] The other state (134 min) was not correct. A  $\sim 8$  min was mentioned earlier (1962Ta12) referring to a paper “to be published”.

Adapted from reference (2013Ma01)

- 1962Ta12 K. Takahashi, J. Phys. Soc. Jap. **17**, 1229 (1962).  
1965Sc24 V. T. Schneider and H. Munzel, Radiochim. Acta **4**, 171 (1965).  
2013Ma01 E. May and M. Thoennessen, At. Data Nucl. Data Tables **99**, 1 (2013).

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