

¹⁶¹Tb

¹⁶¹Tb was observed in 1949 by Butement published in the paper “Radioactive gadolinium and terbium isotopes” (1949Bu01). Natural gadolinium samples were irradiated with neutrons in a pile. Gamma- and beta-ray activities were measured following chemical separation. “The identity, within experimental error, of σ for the 218 sec. and the 6.75 d. activities suggests that they must be assigned as follows: $Gd^{161} \xrightarrow{218sec. \beta} Tb^{161} \xrightarrow{6.75d. \beta} Dy^{161}$ stable.” Previously, a 18 h was reported without element or mass assignments and tentatively assigned to ¹⁶¹Tb (1948Kr07).

Adapted from reference (2013Ma01)

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