^{146}Tb

^{146}Tb was first observed in 1974 by Newman et al. as reported in "Levels in ^{146,147,148}Gd observed following the decay of their terbium parents including a new isotopes, ^{146}Tb" (1974Ne01). A 118 MeV ^{12}C beam from the Oak Ridge isochronous cyclotron bombarded a ^{141}Pr target. Gamma-ray singles and coincidences were measured with Ge(Li) detectors. "The assignment of the new 23-sec activity to ^{146}Tb is based primarily on the fact that five of its γ-rays have been observed by Kownacki et al. in a ^{144}Sm(α,2nγ) study." The measured half-life corresponds to an isomeric state and the ground state half-life (8(4) s) was reported eight years later by Nolte et al. (1982No08).

Adapted from reference (2013Ma01)

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