

¹⁴⁸Tm

“Very proton rich nuclei with $N \approx 82$ ” was published in 1982 by Nolte et al. documenting the observation of ¹⁴⁸Tm ([1982No08](#)). ⁵⁸Ni beams of energies between 233 and 250 MeV from the Munich MP tandem and heavy-ion linear rf post accelerator were used to bombard ⁹²Mo targets forming ¹⁴⁸Tm in the fusion-evaporation reaction ⁹²Mo(⁵⁸Ni,np). Gamma-ray singles and coincidences were measured with coaxial and planar Ge(Li) detectors. “This activity was assigned to the new isotope ¹⁴⁸Tm populated through the reaction ⁹²Mo(⁵⁸Ni,np). The γ intensities of the observed lines are given in [the table]. The decay curve of the 646.6 keV line is displayed in [the figure]. A half-life of 0.7 ± 0.2 s was obtained for ¹⁴⁸Tm.”

Adapted from reference ([2013Fr10](#))

[1982No08](#) E. Nolte, S. Z. Gui, G. Colombo, G. Korschinek, and K. Eskola, *Z. Phys. A* **306**, 223 (1982).

[2013Fr10](#) C. Fry and M. Thoennessen, *At. Data Nucl. Data Tables* **99**, 520 (2013).

Please cite this abstract as: “FRIB Nuclear Data Group, *Discovery of Nuclides Project*, Isotope Database, doi:[10.11578/frib/2279152](https://doi.org/10.11578/frib/2279152)”