

¹⁰⁸Te

¹⁰⁸Te was observed by Bogdanov et al. in the 1973 paper “Delayed protons from Te¹⁰⁹ and the β -decay strength function” ([1973Bo15](#)). ¹⁰⁸Te was produced in the (4n) fusion-evaporation reaction by bombarding an enriched ⁹⁶Ru target with a 137 MeV ¹⁶O beam from the Dubna cyclotron. Reaction products were transported by a gas-jet in front of detectors measuring β -rays, α and proton decays. “Different assumptions concerning the number of evaporated neutrons, namely 4 (Te¹⁰⁸) and 5 (Te¹⁰⁷), yield for ϵ the values 7.0 ± 0.8 and 3.0 ± 0.6 MeV. The second value is low, and the identification of this isotope as Te¹⁰⁸ is preferable.” Previously reported half-lives of 2.2(2) s and 5.3(4) s assigned to ¹⁰⁷Te and ¹⁰⁸Te ([1965Ma12](#), [1965Si04](#)) were later reassigned to ¹⁰⁸Te and ¹⁰⁹Te, respectively ([1973Bo20](#), [1977Ki11](#)).

The discovery date was changed from the original assignment to credit the original Russian publication.

Adapted from reference ([2013Ka01](#))

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