

¹⁸⁹Ta

Benlliure et al. published the discovery of ¹⁸⁹Ta in the 1999 paper entitled “Production of neutron-rich isotopes by cold fragmentation in the reaction ¹⁹⁷Au + Be at 950 A MeV” ([1999Be63](#)). A 950 A·MeV ¹⁹⁷Au beam from the SIS synchrotron of GSI was incident on a beryllium target and ¹⁸⁹Ta was produced in projectile fragmentation reactions. The FRS fragment separator was used to select isotopes with a specific mass-to-charge ratio. “In the right part of [the figure] the projected A/Z distributions are shown for the different elements transmitted in this setting of the FRS. In this setting the isotopes ¹⁹³Re, ¹⁹⁴Re, ¹⁹¹W, ¹⁹²W, ¹⁸⁹Ta, ¹⁸⁷Hf and ¹⁸⁸Hf were clearly identified for the first time. Only isotopes with a yield higher than 15 counts were considered as unambiguously identified.” The abstracts incorrectly lists ¹⁸⁹Tl instead of ¹⁸⁹Ta as the discovery of a new isotope.

Adapted from reference ([2012Ro36](#))

- [1999Be63](#) J. Benlliure, K. H. Schmidt, D. Cortina-Gil, T. Enqvist *et al.*, Nucl. Phys. A **660**, 87 (1999).
- [2012Ro36](#) R. Robinson and M. Thoennessen, At. Data Nucl. Data Tables **98**, 911 (2012).

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