

¹⁶²Os

In the 1989 paper “The new nuclei ¹⁶²Os and ¹⁵⁶Ta and the N=84 alpha emitting isomers” by Hofmann et al. the discovery of ¹⁶²Os was announced ([1989Ho12](#)). Enriched ¹⁰⁶Cd targets were irradiated with 47–89 MeV ⁵⁸Ni beams from the GSI UNILAC. ¹⁶²Os was produced in the fusion-evaporation reaction ¹⁰⁶Cd(⁵⁸Ni,2n) identified with the velocity filter SHIP. “In the reaction ⁵⁸Ni + ¹⁰⁶Cd → ¹⁶⁴Os at E=47.2 MeV we observed a new α line of (6611±30) keV energy correlated to the ¹⁵⁸W line. We assign this line to the α decay of the new isotope ¹⁶²Os.”

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

[1989Ho12](#) S. Hofmann, P. Armbruster, G. Berthes, T. Faestermann *et al.*, *Z. Phys. A* **333**, 107 (1989).

[2012Ro36](#) R. Robinson and M. Thoennessen, *At. Data Nucl. Data Tables* **98**, 911 (2012).

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)”