

¹⁷¹Os

In the 1972 paper “Alpha-decay properties of the new osmium isotopes, ¹⁷⁰Os and ¹⁷¹Os” Toth et al. described the discovery of ¹⁷¹Os ([1972To06](#)). Enriched ¹⁵⁶Dy targets were bombarded with a ²⁰Ne beam with energies up to 160 MeV from the Oak Ridge isochronous cyclotron and ¹⁷¹Os was identified by measuring α -decay spectra. “It is seen that not only do our results support the assignment of the 5.105-MeV α group to ¹⁷²Os, but the (²⁰Ne,5n) and (²⁰Ne,6n) curves reproduce the data points for the new α activities reasonably well. The indication then is that the 5.23- and 5.40-MeV α group are due to the decay of ¹⁷¹Os and ¹⁷⁰Os, respectively.”

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

- [1972To06](#) K. S. Toth, R. L. Hahn, M. A. Ijaz, and R. F. Walker Jr., Phys. Rev. C **5**, 2060 (1972).
- [2012Ro36](#) R. Robinson and M. Thoennessen, At. Data Nucl. Data Tables **98**, 911 (2012).

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