

¹⁹⁸At

Treytl and Valli identified ¹⁹⁸At in the 1967 article “Alpha decay of neutron deficient astatine isotopes” (1967Tr06). Enriched ¹⁸⁵Re and ¹⁸⁷Re targets were bombarded with 100-200 MeV ²⁰Ne beams from the Berkeley HILAC. Reaction products were collected on a silver foil by a helium jet and rotated in front of a Si(Au) surface barrier detector. “ASTATINE-198: The alpha peaks at 6.747 MeV with a half-life of 4.9 sec and at 6.847 MeV with 1.5 sec have excitation functions similar to ¹⁹⁸Po. We have assigned the former one to the ground state and the second one to an isomeric state of ¹⁹⁸At.”

Adapted from reference (2013Fr09)

1967Tr06 W. Treytl and K. Valli, Nucl. Phys. A **97**, 405 (1967).

2013Fr09 C. Fry and M. Thoennessen, At. Data Nucl. Data Tables **99**, 497 (2013).

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