

¹⁹³Bi

¹⁹³Bi was identified by Tarantin et al. in the 1970 paper “Identification and study of the radioactive properties of bismuth isotopes with an electromagnetic mass separator in a heavy-ion beam” ([1970Ta14](#)). A 200 MeV ²⁰Ne beam from the Dubna U-300 cyclotron bombarded a ¹⁸¹Ta target forming ^{192–195}Bi in (9n-6n) fusion-evaporation reactions. Recoil products were separated with an online mass separator and the subsequent α decay was measured with a semiconductor α counter. The α -decay energies and half-lives are summarized in a table. For ¹⁹³Bi, half-lives of 62 s and 3.15 s corresponding to the ground state and an isomeric state, respectively, were listed. Tarantin et al. did not consider these observations discoveries referring to an overview article by Eskola ([1967Es05](#)), who listed results for these isotopes based on a private communication by Siivola.

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

Adapted from reference ([2013Fr04](#))

- [1967Es05](#) P. Eskola, Ark. Fys. **36**, 477 (1967).
[1970Ta14](#) N. I. Tarantin, A. P. Kabachenko, and A. V. Demyanov, Yad. Fiz. **12**, 455 (1970).
[2013Fr04](#) C. Fry and M. Thoennessen, At. Data Nucl. Data Tables **99**, 365 (2013).

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