

²⁰⁹At

²⁰⁹At was identified by Barton et al. and published in the 1951 paper “Radioactivity of astatine isotopes” ([1951Ba14](#)). ²⁰⁹Bi was irradiated with ⁴He beams of up to 380 MeV from the Berkeley 184-in. cyclotron. Alpha spectra were recorded with an alpha-pulse analyzer following chemical separation. “An activity assigned to At²⁰⁹ is characterized by a half-life of 5.5 ± 0.3 hr and an alpha-particle of 5.65 Mev.”

Adapted from reference ([2013Fr09](#))

[1951Ba14](#) G. W. Barton Jr., A. Ghiorso, and I. Perlman, Phys. Rev. **82**, 13 (1951).
[2013Fr09](#) C. Fry and M. Thoennessen, At. Data Nucl. Data Tables **99**, 497 (2013).

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)”