

²⁰³At

²⁰³At 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. “For the present we shall assume the 7-min 6.10-Mev group to be At²⁰³ and designate the 6.35-Mev group with 1.7-min half-life as At^{<203}.” About three months earlier Miller et al. (1950Mi83) measured an 11 min half-life by bombarding a gold target with a ¹³C beam and suggested the possibility that they had formed the 7 min ²⁰³At activity based on a private communication with Barton et al.

Adapted from reference (2013Fr09)

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Please cite this abstract as: “FRIB Nuclear Data Group, *Discovery of Nuclides Project*, Isotope Database, doi:10.11578/frib/2279152”