^{223}At

In the 1989 paper "New neutron-rich isotopes of astatine and bismuth" Burke et al. described the observation of ^{223}At (1989Bu09). A thorium/tantalum metal-foil target was bombarded with 600 MeV protons from the CERN synchro-cyclotron. Astatine isotopes were produced in spallation reactions and separated with the ISOLDE-II on-line separator. Beta-ray spectra were measured with a 4π plastic scintillator. "The most neutron-rich astatine isotope seen in the present experiment was ^{223}At. Its half-life was measured to be 50(7) s."

Adapted from reference (2013Fr09)

1989Bu09 D. G. Burke, H. Folger, H. Gabelmann, E. Hagebo *et al.*, Z. Phys. A **333**, 131 (1989).

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

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