

^{221}At

In the 1989 paper “New neutron-rich isotopes of astatine and bismuth” Burke et al. described the observation of ^{221}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. “Multi-scaling of the 4π plastic scintillator signal gave a half-life of 2.3(2) min. This can be assigned to ^{221}At .”

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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