^{233}Am

In the 2000 paper "New isotope ^{233}Am" Sakama et al. reported the discovery of ^{233}Am (2000Sa52). ^{233}U was bombarded with a 63 MeV ^{6}Li beam from the JAERI tandem accelerator producing ^{233}Am in the (6n) fusion-evaporation reaction. ^{233}Am was separated with the gas-jet coupled JAERI-ISOL on-line separator. Alpha-particles were measured with two Si PIN-photodiodes and X- and γ-rays were measured with a HPGe detector. "The α-decay of ^{233}Am and its subsequent α-decay chain have been observed in the mass-233 fraction. The half-life and α-particle energy of ^{233}Am have been determined to be 3.2$\pm$0.8 min and 6780$\pm$17 keV, respectively."

Adapted from reference (2013Fr02)

2000Sa52 M. Sakama, K. Tsukada, M. Asai, S. Ichikawa *et al.*, Eur. Phys. J. A **9**, 303 (2000).

2013Fr02 C. Fry and M. Thoennessen, At. Data Nucl. Data Tables **99**, 96 (2013).

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