

^{206}Ac

Eskola et al. discovered ^{206}Ac and published the results in the 1998 paper “ α decay of the new isotope ^{206}Ac ” ([1998Es02](#)). A 5.5 MeV/nucleon ^{36}Ar beam from the Jyväskylä K-130 heavy-ion cyclotron bombarded a ^{175}Lu target to form ^{206}Ac in (5n) fusion-evaporation reactions. Residues were separated with the gas-filled separator RITU and implanted in a position sensitive passivated implanted planar silicon detector which also detected subsequent α decay. “ ^{206}Ac was found to have two α particle emitting isomeric levels with half-lives of (22^{+9}_{-3}) ms and (33^{+22}_{-9}) ms, and with α particle energies of (7790 ± 30) keV and (7750 ± 20) keV, respectively.” The first level corresponds to the ground state.

Adapted from reference ([2013Fr03](#))

[1998Es02](#) K. Eskola, P. Kuusiniemi, M. Leino, J. F. C. Cocks *et al.*, Phys. Rev. C **57**, 417 (1998).

[2013Fr03](#) C. Fry and M. Thoennessen, At. Data Nucl. Data Tables **99**, 345 (2013).

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