

^{207}Ac

The discovery of ^{207}Ar was reported by Leino et al. in the 1994 paper “Alpha decay of the new isotopes $^{207,208}\text{Ac}$ ” (1994Le05). A ^{175}Lu target was bombarded with 5.2–5.6 MeV ^{40}Ar beams from the Jyväskylä K-130 heavy-ion cyclotron producing ^{207}Ar in (8n) fusion-evaporation reactions, respectively. Residues were separated with the gas-filled recoil separator RITU and implanted in a position sensitive PIPS detector which also recorded subsequent α decay. “Another new activity with a half-life of (22_{-9}^{+40}) ms and an alpha energy of (7712 ± 25) keV is assigned to ^{207}Ac .”

Adapted from reference (2013Fr03)

1994Le05 M. Leino, J. Uusitalo, T. Enqvist, K. Eskola *et al.*, *Z. Phys. A* **348**, 151 (1994).

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

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