

²⁴⁷Am

In 1967, Orth et al. reported the discovery of ²⁴⁷Am in “New short-lived americium beta emitters” (1967Or02). A ²⁴⁴Pu target was bombarded with 28 MeV α particles and 25 MeV ³He from the Los Alamos variable-energy cyclotron. Following chemical separation, γ -ray spectra were measured with a Ge(Li) detector. “The new 24-min americium activity has been assigned to mass 247 on the following bases: (a) It was produced in α -particle bombardment, but not in ³He bombardment of ²⁴⁴Pu. (b) The energy and M2 multipolarity of the 226-keV transition are consistent with the energy and 24- μ sec half-life of the 226-keV state in ²⁴⁷Cm...”

Adapted from reference (2013Fr02)

1967Or02 C. J. Orth, W. R. Daniels, B. H. Erkkila, F. O. Lawrence, and D. C. Hoffman, Phys. Rev. Lett. **19**, 128 (1967).

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

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