

²¹⁷Pa

The observation of ²¹⁷Pa was first reported in 1968 by Valli and Hyde in “New isotopes of thorium studied with an improved helium-jet recoil transport apparatus” (1968Va18). ²⁰Ne beams with a maximum energy of 166 MeV from the Berkeley heavy ion linear accelerator HILAC bombarded ²⁰³Tl and ²⁰⁶Pb targets to produce ²¹⁷Pa in (6n) and (1p8n) fusion-evaporation reactions, respectively. Recoil products were deposited on a metallic surface in front of a semiconductor detector with a helium gas jet. “We have observed a weak short-lived α group at 8.340 ± 0.010 MeV in spectra obtained by bombardment of ²⁰³Tl and ²⁰⁸Pb with ²⁰Ne ions, which on the basis of the evidence, can be assigned to ²¹⁷Pa.”

Adapted from reference (2013Fr03)

1968Va18 K. Valli and E. K. Hyde, Phys. Rev. **176**, 1377 (1968).

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

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