

²¹⁶Pa

Sung-Ching-Yang et al. reported the observation of ²¹⁶Pa in the 1972 paper “Production of the new isotope Pa²¹⁶ by bombardment of osmium by phosphorus and of gold by magnesium” (1971Su14). ¹⁸⁹Os and ¹⁹⁰Os targets were bombarded with ~200 MeV ²⁴Mg ions from the JINR cyclotron. Recoils were slowed in a gas chamber and transported to two Si(Au) detectors. “In the same figure we have shown the decay curve of the α emitter with E_α equal to 7.72, 7.82, and 7.92 MeV. It is evident that the exponential corresponds to half-life $T_{1/2}=0.20\pm 0.04$ sec.”

Adapted from reference (2013Fr03)

1971Su14 G. Y. Sung-Ching-Yang, V. A. Druin, and A. S. Trofimov, Sov. J. Nucl. Phys. **14**, 725 (1972).

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

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