

²³²Pa

The first observation of ²³²Pa was reported in 1949 by Gofman and Seaborg in “Production and properties of U²³² and Pa²³²” (1949Go01). A ²³²Th target was bombarded with 14 MeV deuterons from the Berkeley 60-in. cyclotron producing ²³²Pa in (d,2n) reactions. Beta- and gamma-rays were measured with a Lauritsen quartz-fiber electro-scope and alpha-particles were measured in an ionization chamber following chemical separation. “It was found that the deuteron bombardment of thorium produces a 1.6-day β - and γ -emitting $_{91}\text{Pa}^{232}$, which decays to a 30-year α -emitting $_{92}\text{U}^{232}$.”

Adapted from reference (2013Fr03)

1949Go01 J. W. Gofman and G. T. Seaborg, *The Transuranium Elements: Research Papers, Book 2, Vol. 14B, paper 19. 14*, G. T. Seaborg ed. , p. 1427 (1949).

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

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