

^{238}Pa

Trautmann et al. published the discovery of ^{238}Pa in “Heavy isotopes of protactinium” in 1968 ([1968Tr07](#)). ^{238}U was bombarded with 14 MeV neutrons in Mainz, Germany. Protactinium was radiochemically separated and γ -ray spectra were measured with Ge(Li) detectors and a γ - γ sum spectrometer consisting of two NaI(Tl) crystals while β -ray spectra were taken with a plastic scintillator. “The β -ray and γ - γ sum spectra indicate that ^{238}U levels extending up to about 2.0 MeV are fed in the β -decay of ^{238}Pa .”

Adapted from reference ([2013Fr03](#))

[1968Tr07](#) N. Trautmann, R. Denig, N. Kaffrell, and G. Herrmann, *Z. Naturforsch.* **23**, 2127 (1968).

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

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