# $^{235}$Np

In 1949, James et al. identified $^{235}$Np in "Products of helium-ion and deuteron bombardment of $U^{235}$ and $U^{238}$" (1949Ja01). Natural uranium and $^{235}$U targets were bombarded with 16 MeV deuterons and 32 MeV $\alpha$ particles from the Berkeley 60-inch cyclotron. X-rays, $\gamma$-rays and $\alpha$ particles were measured following chemical separation. "$Np^{235}$ decays by orbital-electron capture with a half life of approximately 400$\pm$20 days."

Adapted from reference (2013Fr02)


1949Ja01 R. A. James, A. E. Florin, H. H. Hopkins Jr., and A. Ghiorso, The Transuranium Elements: Research Papers, Book 2, Vol. 14B, paper 22. 8, G. T. Seaborg ed. , p. 1604 (1949).

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



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