

²³⁵Th

In the 1969 paper “Wirkungsquerschnitte der (n,p)-, (n,pn)-, und (n,α)-Reaktionen am Uran-238 mit 15-Mev-Neutronen und Nachweis des Thorioms-235,” Trautmann et al. reported the discovery of ²³⁵Th (1969Tr05). Uranyl nitrate was irradiated with 14.8 MeV T-D-neutrons produced with Mainz cascade accelerator forming ²³⁵Th in the reaction ²³⁸U(n,α). Beta-decay curves were measured following chemical separation. “A new isotope of thorium, ²³⁵Th with a half-life of 6.9±0.2 min, was found by repeated milking of ²³⁵Pa.” An earlier attempt to measure the half-life of ²³⁵Th was unsuccessful (1950Ha76).

Adapted from reference (2013Fr03)

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