²⁴⁴Pu(³He,t) 1991Ja04

		History	
Туре	Author	Citation	Literature Cutoff Date
Full Evaluation	C. D. Nesaraja	NDS 146, 387 (2017)	31-Aug-2017

1991Ja04: A beam of 200 MeV ³He ⁺⁺ particles from Indiana University Cyclotron Facility (IUCF) impinges a ²⁴⁴PuO₂ target in a scattering chamber with a beam current of 20-80nA.

Triton spectra were measured at $\theta=0^{\circ}$ by using a magnetic spectrometer. The focal plane of the IUCF K600 magnetic spectrograph consisted of two multi-wire drift chambers backed by two scintillation detectors for particle identification and drift-time measurements. The energy resolution of the focal plane detection system was about 50 keV.

Protons were detected with Li-drifted Si detectors in coincidence with the measured tritons.

²⁴⁴Am Levels

E(level) 19464 27 Comments J^{π} 0^{+} %p≤100

 $\Gamma_p = 337 \text{ keV } 90$

 $Q(^{3}He,t) = -19558$ keV 27 for the transition to the isomeric analog state was measured. The Coulomb displacement energy was deduced from this Q value as 20322 keV 27.