

$^{230}\text{Th}(^3\text{He,t):IAS}$ 1991Ja04

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	Balraj Singh	ENSDF	17-Feb-2014

1991Ja04: $E(^3\text{He})=200$ MeV: observed triton spectrum in singles and measured $\sigma(t)$ at $\theta(t)=0^\circ$. $E(^3\text{He})=76.5$ MeV: observed proton emission from the IAS; and triton spectra in singles and in coincidence with protons emitted by the IAS; measured $\sigma(E(t),E(p),\theta(t),\theta(p))$ for $\theta(t)=0^\circ$, $\theta(p)=+120^\circ$, $+150^\circ$, -150° (1991Ja04).

 ^{230}Pa Levels

E(level)	J^π	Γ	Comments
17763 18	0^+	210 keV 11	<p>$\%p=56$ 6 (1991Ja04) $\Gamma_p=118$ keV 14 (1991Ja04) $d\sigma/d\Omega(\text{at } 0^\circ)=10.8$ mb/sr 8 at 76.5 MeV and ≈ 3 mb/sr at 200 MeV. The proton branching from the level was determined by 1991Ja04 from triton- and proton-cross sections. Γ from 1991Ja04. Deduced Coulomb displacement energy=19856 keV 17 (1991Ja04). Spreading width (neutron and fission decays)=92 keV 14 (1991Ja04).</p>