

$^{238}\text{U}(\text{t,p})$ 1973Ba72

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	Balraj Singh, E. Browne		NDS 109, 2439 (2008)	31-Jul-2008

1973Ba72 (also 1972Ca19): E=16 MeV. Angular distributions measured. FWHM=15-20 keV. Comparison of $\sigma(\theta)$ with DWBA predictions for first 0^+ , 2^+ and 4^+ states.

$^{238}\text{U}(\text{t,pF})$: 1977An09 (E=12.7 MeV); 1974Ba28 (E=15 MeV), 1970Cr09 and 1969Br11 (E=18 MeV). Deduced fission probability; Q value measured in 1969Br11.

 ^{240}U Levels

E(level)	J^π [‡]	L	$d\sigma/d\Omega$ (max) mb/sr [#]	E(level)	$d\sigma/d\Omega$ (max) mb/sr [#]
0	0^+	0	0.30	1670 5	0.03
45 1	(2^+)	†	0.10	1708 5	0.03
151 2	(4^+)	†	0.023	1756 5	0.025
1040 5			0.014	1792 5	0.045
1160 5			0.06	1893 5	0.02
1545 5			0.024	1929 5	0.03
1596 5			0.05	2010 5	0.03

† Poor agreement of $\sigma(\theta)$ with DWBA calculations for L=2 (45 level) and L=4 (151 level).

‡ From the systematics of e-e nuclides and 'Adopted Levels'.

Uncertainty is 20%.