

$^{42}\text{Ca}(\text{p},\text{n})$ 2002Or05

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	Jun Chen [#] and Balraj Singh		NDS 135, 1 (2016)	31-May-2016

2002Or05: E=35 MeV, measured neutron spectra by TOF, σ at Cyclotron and Radioisotope Center, Tohoku University; deduced Gamow-Teller matrix elements.

 ^{42}Sc Levels

E(level)	J^π [†]	Comments
0	0 ⁺	IAS of ^{42}Ca g.s. $\sigma=1.13$ mb/sr.
611	1 ⁺	$\sigma=1.52$ mb/sr. $\sigma(\text{Gamow-Teller})/\sigma(\text{IAS})=1.35$ 10. B(GT) strength=2.64 15 (2002Or05).

[†] From Adopted Levels.