^{48}Ca(^{3}He,n) 1974Ev02

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	Jun Chen and Balraj Singh	NDS 157, 1 (2019)	15-Apr-2019

1974Ev02: E(^{3}He)=18 MeV beam from the Munich MP tandem. Measured $\sigma(\theta)$ chopper. FWHM≈220 keV. DWBA. ΔE(level) estimated by evaluators from data in 1972Ev02.

See 1980Dr02 for comparison of experimental $\sigma(^{3}He,p)/\sigma(^{3}He,n)$ to theory for ^{50}Sc(3.09 MeV)/^{50}Ti(16.58 MeV).

^{50}Ti Levels

E(level)	L[†]	Comments
0	0	dσ/dΩ(maximum)=0.40 at 0°.
1.56×10^{3} *6*	(2)	dσ/dΩ(maximum)=0.40 at 20°.
4.44×10^{3} *6*	(2)	dσ/dΩ(maximum)=0.10 at 15°.
7.19×10^{3} *6*	0	dσ/dΩ(maximum)=0.27 at 0°.
10.22×10^{3} *6*		dσ/dΩ(maximum)=0.16 at 0°.
13.83×10^{3} *6*	(2)	dσ/dΩ(maximum)=0.16 at 15°.
16.01×10^{3} *6*	(0)	dσ/dΩ(maximum)=0.13 at 0°.
16.58×10^{3} *6*	0	dσ/dΩ(maximum)=0.4 at 0°.

[†] From DWBA and angular distribution systematics.