

$^{48}\text{Ca}(^3\text{He}, ^3\text{He}'), (\text{pol } ^3\text{He}, ^3\text{He}')$ 1985Ha08

<u>Type</u>	<u>Author</u>	<u>History Citation</u>	<u>Literature Cutoff Date</u>
Full Evaluation	Jun Chen	NDS 179, 1 (2022)	30-Nov-2021

E=33.1 MeV polarized ^3He beam was produced from the University of Birmingham Radial Ridge Cyclotron. Measured $\sigma(\theta)$ and analyzing power at $\theta(\text{c.m.})=20^\circ$ to 120° . Deduced levels, L-transfers, deformation parameter from DWBA analysis. $\sigma(\theta)$ obey the Blair phase rule (1959B131).

Other: 1978BeWY.

 ^{48}Ca Levels

<u>E(level)</u>	<u>L[†]</u>	<u>β_2[†]</u>
0.0		
3832	2	0.122
4504 [‡]	(4)	
4507 [‡]	3	

[†] From DWBA fit to measured $\sigma(\theta)$ (1985Ha08).

[‡] Unresolved. From calculations assuming either a 3^- single-phonon transition or a one-step process to 4^+ , the 4^+ state is at best weakly excited.