^{40}Ca(^{6}Li,t) 1974Li01

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	Balraj Singh and Jun Chen[#]	NDS 126, 1 (2015)	31-Mar-2015

1974Li01: E=34.0 and 36.0 MeV ^{6}Li beams were produced from the University of Rochester MP Tandem accelerator, with intensity of 300-400 nA. Targets of ≈75 μg/cm^2 natural ^{40}Ca on carbon and gold backings. Tritons were detected in a spark counter mounted in the focal plane of a magnetic spectrograph, FWHM≈50 keV. Measured $\sigma(\theta)$. Deduced levels, L, J, π from DWBA analysis.

1986Pl01: E=156 MeV Measured (fragment)γ-coin, $\sigma(\theta)$.

1982Ne02: E=156 MeV, measured $\sigma(\theta)$.

All data are from 1974Li01 unless otherwise noted.

^{43}Ti Levels

E(level)	L[†]	S
0	3	1.0
520 *30*		
1150 *30*	1	2.5
1760 *30*	1	1.5
1860 *30*	(5)	0.63
2230 *30*	3	1.8
2640 *30*	5	0.35
2950 *30*	7	0.24
3220 *30*	(9)	0.55

[†] From $\sigma(\theta)$. J^{π} values implied are: 1/2$^-$ to 5/2$^-$ for L=1; 3/2$^-$ to 9/2$^-$ for L=3; 7/2$^-$ to 13/2$^-$ for L=5; 11/2$^-$ to 17/2$^-$ for L=7 and 15/2$^-$ to 21/2$^-$ for L=9.