^{46}Ca(t,p)   1967Bj06

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

1967Bj06: E=12 MeV triton beam was produced from the Aldermaston Tandem generator. Target was 100 μg/cm^2 >99.5% enriched CaCO$_3$ on a ≈50 μg/cm^2 carbon foil. Reaction products were momentum-analyzed with a multi-angle broad-range spectrograph (FWHM=15 keV) and detected in photographic emulsion plates. Measured $\sigma(\theta_{cm}$=0° to 180°). Deduced levels, J, π, L-transfers.

^{48}Ca Levels

E(level)	J$^{\pi}$[†]	L[‡]	E(level)	J$^{\pi}$[†]	L[‡]	E(level)	E(level)
0.0	0$^+$	0	6329 *15*	2$^+$	2	8237 *20*	8604 *20*
3827 *10*	2$^+$	2	6645 *15*			8268 *20*	8697 *20*
4281 *10*	0$^+$	0	6793 *15*	2$^+$	2	8473 *20*	8782 *20*
4496 *10*			7650 *20*			8513 *20*	
5459 *10*	0$^+$	0	8018 *20*			8538 *20*	

[†] Based on the selection rules J=L and π=(−1)^L for (t,p) reactions on even-even targets.
[‡] From an empirical analysis of systematic trends of angular distributions.