^{28}Si(^{7}Li,t) 1999Ma73,1969Go17

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	Jun Chen	NDS 201,1 (2025)	31-Oct-2024

1999Ma73: E=48 MeV beam was produced from the 15UD Pelletron at NSC, New Delhi. Target was self-supporting natural ^{28}Si. Reaction products were detected with three Δ-E telescopes of Si(Li) detectors (FWHM=100 keV). Measured $\sigma(E_t,\theta)$, θ_{lab}=6° to 40°. Deduced levels, spectroscopic factors from DWBA analysis. Reanalyzed (^{6}Li,d) data of 1981Ta23.

1969Go17: E=30.3 MeV ^{7}Li beam was produced from the Kurchatov Institurte of Atomic Energy. Target was natural Si. Reaction products were momentum-analyzed with a multiparameter analysis system. Measured energy spectrum, $\sigma(\theta)$. Deduced levels.

^{32}S Levels

E(level)†	S†	Comments
0	0.33	
2230	0.11	E(level): other: 2200 (1969Go17).
3780	0.05	E(level): other: 3800 (1969Go17).
4460	0.47	E(level): other: 4500 (1969Go17).
5010	0.28	E(level): other: 5000 (1969Go17).
5800	0.08	
6760	0.29	E(level): other: 6800 (1969Go17).
7430	0.57	E(level): other: 7500 (1969Go17).
8490	1.05	E(level): other: 8500 (1969Go17).
10400‡		
10800‡		
11800‡		Strongly excited (1969Go17).
12400‡		
13600‡		
14500‡		
15600‡		
17100‡		Strongly excited (1969Go17).

† From 1999Ma73, unless otherwise noted.
‡ From 1969Go17.