

$^{70}\text{Ge}(^6\text{Li}, ^6\text{Li}')$ 1989Ja09

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	G. Gürdal, E. A. Mccutchan		NDS 136, 1 (2016)	1-Jul-2016

1989Ja09: E(^6Li)=44 MeV provided by Orsay tandem MP Van de Graaff. 96.2% enriched ^{70}Ge target. A split-pole magnetic spectrometer used. Measured $\sigma(\theta)$, DWBA and coupled channel analysis.

2005Ba13: E(^6Li)=28 MeV provided by Sao Paulo Pelletron accelerator. self-supported $30\mu\text{g}/\text{cm}^2$ ^{70}Ge target. A split-pole magnetic spectrometer used. Elastically scattered ^6Li were monitored by a surface barrier detector. Measured angular distributions of scattered ^6Li , $\sigma(\theta)$, DWBA and coupled channel analysis.

 ^{70}Ge Levels

E(level) [†]	L [#]	Comments
0		
1038 [‡] 17		$\beta_2=0.180$ 20 Corresponding $\beta_2R=1.06$ 12.
1210 17		
1710 17		
2150 17		
2568 [‡] 17		$\beta_3=0.170$ 20 Corresponding $\beta_3R=1.00$ 11.
3058 17	4	
3176 17	2	
3314 17	4	
3430 17	4	
3573 17	3	

[†] From 1989Ja09.

[‡] Deformation parameters based on a vibrational-model coupled-channel analysis.

[#] From DWBA analysis (1989Ja09).