

$^{58}\text{Ni}(^6\text{Li},^6\text{Li}')$ 1980Wi05

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	Caroline D. Nesaraja, Scott D. Geraedts and Balraj Singh		NDS 111,897 (2010)	12-Jan-2010

1980Wi05: E=71.2 MeV. Measured ^6Li particle spectra and angular distributions with Enge split-pole spectrograph using ΔE and time-of-flight methods. FWHM=90 keV. DWBA and coupled-channel analyses. Deduced deformation parameters.

[Additional information 1.](#)

 ^{58}Ni Levels

E(level)	L	B_L^\dagger	Comments
0			
1450	2	0.21 8	$\beta_2R=1.17$ 1.
2460	4	0.054 4	$\beta_4R=0.31$ 2.
2780	2	0.021 9	$\beta_2R=0.11$ 5.
3040	2	0.060 8	$\beta_2R=0.34$ 2.
3260	2	0.066 7	$\beta_2R=0.38$ 4.
3620	4	0.042 6	$\beta_4R=0.24$ 2.
3900	2	0.032 6	$\beta_2R=0.18$ 1.
4480	3	0.12 5	$\beta_3R=0.67$ 2.
4750	4	0.050 6	$\beta_4R=0.29$ 2.

† Deformation lengths ($\beta_L R$) are given under comments.