^{64}Ni(^{6}Li,d)   1979Ba11

	History		
Type	Author	Citation	Literature Cutoff Date
Full Evaluation	E. A. Mccutchan	NDS 113, 1735 (2012)	1-Mar-2012

1979Ba11: E(^{6}Li)=28 MeV. Measured $\sigma(\theta)$, θ=5°−50° (5° steps) using split pole spectrometer and sonic spark counter (FWHM=100 keV); DWBA analysis.

1972Gu12: E(^{6}Li)=38 MeV. Similar experimental set-up as 1979Ba11.

^{68}Zn Levels

E(level)[†]	L[‡]	σ(exp)/σ(DWBA)[@]	Comments
0	0	0.28	
1080 20	2	0.056	
1880 20	2	0.034	
2340?			
2440 20	4	0.031	E(level): unresolved from the 2340 level.
2750 20	3	0.039	
2820 20			E(level): Observed only by 1972Gu12.
2970 20	(4)	0.014	
3470 20	5	0.011	L: 5 on basis of (t,p) data.
3750 20	(1)[#]	0.073	σ(exp)/σ(DWBA): 0.045 + 0.006 for L=0+4 combination.
4550 20	2+3		E(level): probable doublet.
			σ(exp)/σ(DWBA): 0.042 (L=2) + 0.025 (L=3).
5030 20	(1)[#]	0.070	σ(exp)/σ(DWBA): 0.053 + 0.0073 for L=0+4 combination.

[†] From 1979Ba11, except where noted.

[‡] From DWBA fits to $\sigma(\theta)$ for α transfer.

[#] Best fit obtained for single L value is L=1, although mixture of L=0+4 also provides similar quality fit.

[@] The authors also give spectroscopic factors from shell-model and interacting boson model calculations.