^{66}Zn(^{3}He,d)　1971Be42

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	Huo Junde, Huang Xiaolong, J. K. Tuli	NDS 106, 159 (2005)	1-Apr-2005

1971Be42: E=18 MeV, measured $\sigma(\theta)$, θ=5°−35°, DWBA analysis.
Other: 1974Ze01.

^{67}Ga Levels

E(level)[†]	J$^{\pi}$ [@]	L	(2J+1)C^{2}S	Comments
0	3/2$^-$	1	1.43	
170 *20*	1/2$^-$	1	1.27	
360 *20*	5/2$^-$	3	4.75	
850 *20*	3/2$^-$,1/2$^-$	1	0.40,0.46	
1100 *20*	3/2$^-$,1/2$^-$	1	0.17,0.20	
1220 *20*				
1430 *20*				
1580 *20*	5/2$^-$	3	0.46	
1840 *20*	3/2$^-$,1/2$^-$	1	0.045,0.05	
2030 *20*				
2090 *20*	9/2$^+$	4	3.49	
2160 *20*	3/2$^-$,1/2$^-$	1	0.07,0.09	
2200 *20*				
2430 *20*	3/2$^-$,1/2$^-$	1	0.06,0.07	
2480 *20*	9/2$^+$	(4)	(0.38)	
2550 *20*	3/2$^-$,1/2$^-$	1	0.10,0.11	
2770 *20*	5/2$^+$	2	0.26	
2820 *20*				
2890 *20*	5/2$^+$	2	0.30	
2950 *20*				
3220 *20*				
3380 *20*				E(level): not resolved.
3440 *20*	3/2$^-$,1/2$^-$	1	0.024,0.028	
3510[‡] *20*				
3700[‡] *20*				
3760[‡] *20*				
3820 *20*	3/2$^-$,1/2$^-$	1	0.034,0.038	
3870 *20*				
3900 *20*				
3940 *20*				
3980 *20*	5/2$^+$	2	0.14	
4070 *20*				
4200 *20*	5/2$^+$	2	0.09	
4290 *20*				
4330 *20*				
4360 *20*				
4450 *20*				
4500 *20*				
4550 *20*	5/2$^+$	2	0.11	
4720 *20*	5/2$^+$	2	0.09	
4760 *20*	1/2$^+$	0	0.08	
4820 *20*	5/2$^-$	3	0.34	
5300				
5370				
6390				
7890[#]				

^{66}Zn(^{3}He,d)   **1971Be42 (continued)**

^{67}Ga Levels (continued)

E(level)[†]

7980[#]
8060[#]
8260[#]
8470[#]
8640[#]
8760[#]

[†] Levels above S(p)=5268.7 *13* unbound for p emission.
[‡] Not resolved from impurity line.
[#] These levels are interpreted as analog states.
[@] Assumed to extract spectroscopic factors.