^{52}Cr(t,α) 1967Gl09

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	Wang Jimin and Huang Xiaolong	NDS 144, 1 (2017)	1-Mar-2016

E=12.14 MeV; measured σ(Eα,θ) and fitted with zero-range DWBA.

^{51}V Levels

E(level)	J$^\pi$‡	L†	C^{2}S@	Comments
0	7/2$^-$#	3	4.0	
2404	3/2$^-$#			L: authors′ value L=3; C^{2}S=0.72.
2544	1/2$^+$#			L: authors′ value L=2; C^{2}S=1.93.
2674	(3/2)$^+$#			L: authors′ value L=0; C^{2}S=0.82.
3632	3/2$^+$,5/2$^+$	2	1.22	
3749	1/2$^+$	0	0.12	
4205	3/2$^+$,5/2$^+$	2	0.38	
4505	1/2$^+$	0	0.15	
4907	1/2$^+$	0	0.15	
5065	3/2$^+$,5/2$^+$	2	0.34	
5496	3/2$^+$,5/2$^+$	2	0.36	
5600	3/2$^+$,5/2$^+$	2	0.60	

† From DWBA analysis of measured $\sigma(\theta)$.

‡ From L values, except for the g.s. and 2404, 2544, and 2674 levels as noted. The authors′ L values for these three excited states are discrepant with adopted J^π values. It is possible that the values are misprints, with L values for the 2544 and 2674 being reversed. The reference 1967Gl09 is a brief report containing only a table of values.

From Adopted Levels.

@ Normalized to 4.0 for C^{2}S of g.s.