

$^{52}\text{Cr}(^3\text{He},\alpha)$ 1978Fo34

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

E=25 MeV; FWHM=20-25 keV, measured $\sigma(E,\theta)$, analyzed with DWBA and coupled-reaction channel model.

 ^{51}Cr Levels

E(level)	L [@]	C ² S	Comments
0	3	5.15	
731 10	1	0.07	
1165 10			
1347 10	3	0.08	
1480 [†]			
1546 10	3	0.03	
1896 10			
2000 10			
2311 10	3	1.46	
2391 [#] 10			
2699 10	3	0.03	
2769 10	0	1.24	
2826 10	1	0.02	
2914 10	3	0.05	
2955 10	3	0.10	
3012 10	2	1.64	
3116 10	1	0.01	
3349 10	3	0.07	
3759 10	1	0.02	
3990 10	2	0.10	
4079 10	2	0.23	
4198 10	2	0.10	
4258 10	2	0.03	
4359 10	2	0.07	
4569 10	(2)	0.10	
4583 10	3	0.06	
4668 10	3	0.12	
4793 10	(1)	0.13	
4978 10	(2)	0.08	
5030 10	(2,3)	0.03,0.02	
5121 10	3	0.28	
5222 10	1	0.04	
5265 10	2	0.17	
5306 10	(3,2)	0.09,0.13	
5346 10	(2,3)	0.01,0.05	
5409 10	2	0.04	
5455 [‡] 10	3	0.40	
5537 10	2	0.10	
5761 10	2	0.15	
5832 10	3	0.14	
5943 10	(0,1)	0.09,0.03	
6378 10	2	0.09	
6630 20	3	1.11	T=5/2 E(level): IAS of 7/2 ⁻ g.s. in ^{51}V ; $\Delta E(\text{Coulomb})=8164$ 21 (1978Fo34).
7310 20	0	0.04	
7680 20	0	0.05	
7780 20	2	0.14	
8420 20	(0)	0.03	

Continued on next page (footnotes at end of table)

$^{52}\text{Cr}(^3\text{He},\alpha)$ 1978Fo34 (continued) ^{51}Cr Levels (continued)

<u>E(level)</u>	<u>L</u> [@]	<u>C²S</u>	<u>Comments</u>
8480 20	0	0.04	
9220 20	0	0.48	T=5/2
9330 20	2	1.17	E(level): IAS of 1/2 ⁺ 2545 in ⁵¹ V; ΔE(Coulomb)=8206 21 (1978Fo34). T=5/2
			E(level): IAS of 3/2 ⁺ 2675 in ⁵¹ V; ΔE(Coulomb)=8189 21 (1978Fo34).

† Obscured by a contaminate peak. Apparently seen (see authors' text), but no $\sigma(\theta)$ could be determined.

‡ Doublet.

Contains a contaminant.

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