

$^{51}\text{V}(\alpha, t)$ 1989Pe06, 1968Ma37, 1978Le08

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	Yang Dong, Huo Junde		NDS 128, 185 (2015)	10-Jul-2015

Target $J^\pi=7/2^-$.

1968Ma37: E=29 MeV, FWHM \approx 110 keV, $\sigma(E(t), \theta)$, E- Δ E semiconductor detector assembly, 1000 μm thick stopping detector, 3 MM diam Δ E detector, DWBA analysis.

1978Le08: E=25 MeV, $\sigma(E, \theta)$, E- Δ E silicon semiconductor detector telescope, E-detectors were about 1 mm thick, Δ E detectors were from 60 to 140 μm thick, DWBA analysis.

1989Pe06: E=80.9 MeV, $\sigma(E, \theta)$, QDDM spectrometer, DWBA analysis.

Others: 1976ToZK.

Data for E(level)<6000 are from 1968Ma37; others are from 1989Pe06, except as noted.

 ^{52}Cr Levels

E(level)	L	C ² S	Comments
0.0	3	0.50 ‡	C ² S: 0.57 (1978Le08).
1430	3	0.68 ‡ 10	C ² S: 0.82 (1978Le08).
2370	3	0.53 ‡ 10	
2770	3	0.81 ‡ 10	
3110 40	3	1.72 ‡ 20	
3440 40	3,(1)	0.05 ‡ 5	
3800 40	3,(1)	0.05 ‡ 5	
4.10 $\times 10^3$ 10			
4.68 $\times 10^3$ 10	1		
5.12 $\times 10^3$ 10	1		
5.45 $\times 10^3$ 10	1		
5.83 $\times 10^3$ 10	1		
7.81 $\times 10^3$	4	0.88 †	
8.01 $\times 10^3$	4	0.46 †	
8.19 $\times 10^3$	4	0.69 †	
8.42 $\times 10^3$	4	0.015	
9.48 $\times 10^3$	4	0.032	
9.63 $\times 10^3$	4	0.012	
10.13 $\times 10^3$	4	0.019	
10.28 $\times 10^3$	4	0.039	
11.17 $\times 10^3$	4	0.047	
11.35 $\times 10^3$	4	0.051	
11.66 $\times 10^3$	4	0.012	
11.79 $\times 10^3$	4	0.038	
12.05 $\times 10^3$	4	0.045	
12.50 $\times 10^3$	4	0.67 †	
12.70 $\times 10^3$	4	0.011	
13.01 $\times 10^3$	4	0.36 †	
14.47 $\times 10^3$	4	0.020	
15.28 $\times 10^3$	4	0.080	T=3
15.482 $\times 10^3$ 7	4	0.121	T=3

† C²S/(2J_I+1) (1989Pe06).

‡ (2J_f+1)C²S/(2J_i+1) (1968Ma37).