

$^{51}\text{V}(\text{t,d})$ 1987Ka40

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

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

E=33 MeV, total energy resolution 65 keV, measured E(d), $\sigma(\theta)$, DWBA analysis.

 ^{52}V Levels

Isospin Clebsch-Gorden coefficient C2=1.

E(level)	L	$C^2S(2J_f+1)/(2J_i+1)$	Comments
20 <i>10</i>	1	1.60	
150 <i>10</i>	1	0.42	
437 <i>10</i>	1	0.10	
830 <i>10</i>	1	0.64	
1305 <i>10</i>	1+3		L=1 S=0.016, L=3 S=0.032.
1436 <i>10</i>	1	0.11	
1569 <i>10</i>	1	0.27	
1665 <i>10</i>	3	0.11	
1775 [†] <i>10</i>	1+3		L=1 S=0.16, L=3 S=0.61.
1844 <i>10</i>	1	0.056	
2104 <i>10</i>	1+3		L=1 S=0.23, L=3 S=0.26.
2155 <i>10</i>	3	0.91	
2317 <i>10</i>	1+3		L=1 S=0.10, L=3 S=0.12.
2438 <i>10</i>	1+3		L=1 S=0.08, L=3 S=0.22.
2533 <i>10</i>	1+3		L=1 S=0.072, L=3 S=0.18.
2768 <i>10</i>	1	0.05	
2848 <i>10</i>	3	0.11	
3058 <i>10</i>	1	0.11	
3194 <i>10</i>	1+3		L=1 S=0.16, L=3 S=0.24.
3287 <i>10</i>	1	0.12	
3479 <i>10</i>	1+3		L=1 S=0.072, L=3 S=0.16.
3549 <i>10</i>	4	0.42	
3684 <i>10</i>	4	0.29	
3769 <i>10</i>	4	0.90	
3867 <i>10</i>	3	0.30	
3940 <i>10</i>	4	0.20	
4034 <i>10</i>	4	0.32	
4120 <i>10</i>	4	0.34	
4307 <i>10</i>	4	1.18	
4429 <i>10</i>	1+3		L=1 S=0.22, L=3 S=0.18.
4533 <i>10</i>	4	0.33	
4609 <i>10</i>	3	0.11	
4715 <i>10</i>	3	0.33	
4772 <i>10</i>	1	0.10	
4902 <i>10</i>	3	0.24	
4980 <i>10</i>	1+3		L=1 S=0.26, L=3 S=0.14.
5085 <i>10</i>	4	0.20	
5187 <i>10</i>	4	0.38	
5277 <i>10</i>	1	0.40	
5337 <i>10</i>	1	0.22	
5480 <i>10</i>	1	0.29	
5548 <i>10</i>	4	0.26	
5646 <i>10</i>	1	0.18	
5744 <i>10</i>	3	0.22	

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$^{51}\text{V}(\text{t,d})$ 1987Ka40 (continued) ^{52}V Levels (continued)

<u>E(level)</u>	<u>L</u>	<u>$C^2S(2J_f+1)/(2J_i+1)$</u>	<u>Comments</u>
5845 10	3	0.33	
5951 10	3	0.18	
6087 10	3	0.17	
6166 10	1+3		L=1 S=0.05, L=3 S=0.05.
6270 10	1	0.13	
6403 10	1+3		L=1 S=0.04, L=3 S=0.032.
6517 10	3	0.12	
6890 25			
7110 25			
7320 25			
7540 25			
7850 25			
8050 25			
8250 25			
8400 25			
8760 25			
9060 25			
9310 25			
9510 25			
10080 25			
10650 25			

† Authors' value of 1755 in their table is a misprint, see authors' text.