

$^{51}\text{V}(e,e')$ 1970Hu12,1973Pe04

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

For M7 moment study, see [1981Ar05](#) (E=80.84-229 MeV), [1974Na21](#) (E=107-235 MeV), [1983Dz03](#) (E=250 MeV), and [1983Pl02](#) (E=325,350,375,400 MeV), and [1985Dz06](#) (E=250 MeV).

For magnetization radii, see [1970De36](#) (E=40-90 MeV).

For rms radius, see [1970Th02](#) (E=60 MeV) and [1977De29](#) (E=175-275 MeV).

For B(M1) strength distribution, see [1983Be11](#) (E=38-57 MeV) and [1985Mu06](#) (E=38,49,57 MeV).

For magnetic dipole excitation, see [1985Mu06](#).

For elastic magnetic scattering, see [1986Gh01](#).

[1970Hu12](#): E=50-90 MeV, measured σ and B(E2). FWHM=120 keV.

[1973Pe04](#): E=183,250 MeV, measured $\sigma(\theta)$. FWHM=150 keV at 320 to 190 keV at 3910 keV estimated by evaluator.

All data from [1970Hu12](#), except as noted.

 ^{51}V Levels

E(level)	J^π [†]	$T_{1/2}$ [#]	Comments
0	$7/2^-$		
320	$5/2^-$		B(E2) \uparrow =0.0092 <i>30</i>
930	$3/2^-$	11.0 ps <i>21</i>	B(E2) \uparrow =0.0032 <i>6</i>
1610	$11/2^-$	0.68 ps <i>12</i>	B(E2) \uparrow =0.0116 <i>20</i>
1810	$9/2^-$	0.82 ps <i>+25-20</i>	B(E2) \uparrow =0.0031 <i>7</i>
			$T_{1/2}$: from B(E2) and adopted branching=0.749 <i>13</i> and $\delta=-3.8 +6-8$.
2400 [‡]			
2700 [‡]			
3210 [‡]			
3390 [‡]			
3910 [‡]			

[†] Based on B(E2) excitation, $d\sigma/d\Omega$ measurement, and shell-model prediction.

[‡] From [1973Pe04](#); see also [1962Ke17](#).

[#] From B(E2) and adopted transition properties.