^{51}V(π,π')   1987Oa02

History

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

Target (99.7% ^{51}V), E=180 MeV; measured $\sigma(\pi,\pi',\theta)$, FWHM=150 keV, θ=18°−55°; analyzed by using standard Kisslinger potential and DWIA.

^{51}V Levels

E(level)	$J^{\pi\ddagger}$	L†	Comments
0.0	7/2$^-$	2	
320	5/2$^-$	2	
930	3/2$^-$	2+4	
1610	11/2$^-$	2	
1810	9/2$^-$	2+4	
2410	3/2$^-$	2+4	
2690		3+5,4	E(level): probably composite of 2680 and 2700 levels.
3270		2+4,1+3	E(level): probably composite of 3260 and 3280 levels.
3380$^\#$		2+4	
3520$^\#$		2+4	
3670$^\#$		2+4	E(level): probably composite of 3660 and 3680 levels.
3800$^\#$		2+4	
3900		2+4	E(level): probably composite of 3870, 3920, and 3940 levels.
4000		3	
4270	(1/2)$^-$	4	

† From collective-model DWBA analysis of measured $\sigma(\theta)$.
‡ From Adopted Levels.
$^\#$ Many unresolved negative-parity states were fit in this region.

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