^{51}V(p,n) 1972Eg01,1970Te02,1967Co13

History

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

Target $J^{\pi}=7/2^{-}$.
1972Eg01: E=4, 5 MeV, FWHM≈70 keV estimated by the evaluators, measured σ(E(n),θ), fitted with Hauser-Feshbach model.
1970Te02: E=2.4-3.3 MeV, measured σ(E,E(n)), compared with Hauser-Feshbach calculation.
1967Co13: E=13 MeV, measured σ(E(n)) with tof.
Other: 1989PeZY (E=9,11,13 MeV; measured $\sigma(\theta)$ θ=0-150° in 25° steps).

^{51}Cr Levels

E(level)[†]	J$^{\pi}$[‡]	Comments
0	$7/2^{-}$	
749	$3/2^{-}$	
777	$1/2^{-}$	
1165	$9/2^{-}$	
1353	$5/2^{-}$	
1480	$11/2^{-}$	
1557	$7/2^{-}$[#]	J$^{\pi}$: other: J=(5/2,7/2) (1972Eg01).
1899	$(3/2^{-})$	
2002	(5/2)	
2256	$15/2^{-}$[#]	J$^{\pi}$: other: J=(15/2,17/2) (1972Eg01).
2313	$7/2^{-}$	
2379	$9/2^{-}$[#]	J$^{\pi}$: other: J=(7/2,9/2) (1972Eg01).
6650 *40*	$7/2^{-}$	E(level): IAS of $7/2^{-}$ g.s. in ^{51}V, from 1967Co13.

[†] From 1972Eg01 and 1970Te02.
[‡] J is based on $\sigma(\theta)$ and Hauser-Feshbach calculation, from 1972Eg01, except as noted. π is taken from L values in (d,p) reaction by 1968Ro09.
[#] From Adopted Levels.