

$^{50}\text{Ti}(\text{d,p}), (\text{pol d,p})$ 1964Ba39,1968G104,1972Ko41

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

1964Ba39: E=6 MeV, FWHM=15 keV, multi-gap heavy particle spectrograph; measured $\sigma(\theta)$; DWBA analysis.

1968De04: E=8, 10 MeV, measured $\sigma(\theta)$.

1968Wi02: reanalyzed results of 1964Ba39.

1968G104: E=10 MeV; measured $\sigma(\theta)$.

1972Ko41: E=10 MeV, FWHM=35-70 keV, polarized beam; measured polarization parameters, and $\sigma(\text{E(d); E(p),}\theta)$.

1963Yn01: E=21.4 MeV, E- $\Delta\text{E}/\Delta\text{x}$ telescope with NaI, measured σ , DWBA analysis.

 ^{51}Ti Levels

E(level) [†]	$J^{\pi b}$	L^c	$C^2S'^d$	E(level) [†]	$J^{\pi b}$	L^c	$C^2S'^d$	E(level) [†]	L^c	$C^2S'^d$
0	3/2 ⁻	1	2.5	3164 10	3/2 ⁻	1	0.35	4820 10	0	0.09
1160 10	1/2 ⁻	1	0.96	3759 10	9/2 ⁺	4	3.7	4882 10	0	0.13
1429 10		3 ^{‡#}	0.6 [‡]	4022 10		(3)&	0.31	4998 10	(0) ^a	
1559 10		3 [‡]		4172 10		(2)&	0.29	5013 10	(0) ^a	
2136 10	5/2 ⁻	3 [@]	2.0	4470 10				5102 10		
2189 10	3/2 ⁻	1	0.26	4569 10		1	0.10	5149 10	3	2.2
2690 [‡]				4602 10		(2)&	0.53	5224 10		
2896 10	1/2 ⁻	1	0.62	4757 10						

[†] From 1964Ba39, except as noted. Values of 1964Ba39 are consistently lower than values of Adopted Levels by 7 keV for the 1160 level to 12 keV for the 3759 level. Where used in Adopted Levels (4012 level and higher), the evaluator has increased the authors values by 10 keV (4012 to 4022, 4162 to 4172, ..., 5214 to 5224).

[‡] From 1968G104.

[#] From 1963Yn01.

[@] From 1968De04.

& L=1 is not definitely excluded.

^a L=(0) for E=4998 + 5013 with $C^2S'=0.08$.

^b From comparison of the vector analyzing power to DWBA (1972Ko41).

^c From DWBA analysis of measured $\sigma(\theta)$. Values are from 1968Wi02, except as noted.

^d From 1968Wi02, except as noted.