^{46}Ti(pol d,p) 1977St01,1972Ko41

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	S. Ota and E. A. Mccutchan	NDS 203,1 (2025)	1-Apr-2025

1972Ko41: E(d)=10 MeV. Measured $\sigma(\theta)$ and vector analyzing power using 4 surface barrier detectors; comparison to DWBA calculations.

1977St01: E=6 and 10 MeV. Measured Ep, vector and tensor analyzing powers with Si detectors for 160, 1550, and 1790-keV levels.

^{47}Ti Levels

E(level)[†]	Jπ[‡]	L[#]	S[#] [@]	Comments
0.0				
1.6×10^2	7/2$^-$	3	0.58	S: other: 0.46 (1977St01).
1.55×10^3	3/2$^-$	1	0.56	S: other: 0.33 (1977St01).
1.79×10^3	1/2$^-$	1	0.37	S: other: 0.20 (1977St01).
2.16×10^3	3/2$^-$	1	0.05	
2.54×10^3	3/2$^-$	1	0.06	
2.62×10^3	7/2$^-$	3	0.16	
2.79×10^3	1/2$^-$	1	0.14	E(level): 2.79- and 2.84-MeV states unresolved.
2.84×10^3	(5/2)$^-$	3	0.17	E(level): 2.79- and 2.84-MeV states unresolved.
3.28×10^3	3/2$^-$	1	0.04	
3.55×10^3	1/2$^-$	1	0.11	
3.68×10^3	3/2$^-$	1	0.14	
3.91×10^3	3/2$^-$	1	0.21	
4.64×10^3[&]	1/2$^-$	1	0.05	
5.36×10^3[a]	1/2$^-$	1	0.14	
5.58×10^3[b]	1/2$^-$	1	0.19	
5.81×10^3[b]	1/2$^-$	1	0.27	

[†] 1972Ko41 only provide nominal energies taken from (d,p) work of 1966Ra05.
[‡] From comparison to DWBA calculations (1972Ko41).
[#] From 1972Ko41.
[@] $\sigma(\theta)$ characteristic of non-stripping transition.
[&] Unresolved from 4690.
[a] Unresolved from 5410.
[b] Dominates a group of weakly excited states.