

$^{48}\text{Ti}(\text{p,t})$ 1973Ba13,1973Ra25

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	S. -c. Wu	NDS 91, 1 (2000)	15-Jul-2000

E=42.13 MeV (1978Ko27); Q3D magnetic spectrograph at $\theta=21^\circ$ with proportional counter and plastic scintillation detector; measured Q of IAS.

E=27 MeV (1973Ba13,1970Ba40); Si and Si(Li) EDE counter telescopes; DWBA analysis of angular distributions.

E=51 MeV (1973Ra25); broad-range magnetic spectrograph, emulsions; DWBA analysis of angular distributions.

E=40 MeV (1972Ko43); 2 Si EDE counter telescopes; DWBA analysis of angular distributions.

Other: 1964Ba34.

Information on levels up to 5000 from 1973Ra25, except as noted. Information on levels from 5000 to 7510 from 1972Ko43.

Information on levels above 7510 from 1978Ko27, except as noted.

 ^{46}Ti Levels

E(level)	L [†]	S [‡]	Comments
0.0	0	4.5	
890 5	2	0.65	
2010 5	4	0.13	
2610 5	0	0.18	
3055 5	3		
3235 5	2	0.17	
3295 5	(5,6)		
3570 @ 5	0+(3)		
3720 5	(2)	0.09	
3840 5	2	0.72	
3930 10	(2)	0.04	
4130 10	2	0.56	
4180 10	3		
4400 10	5,6		
4500 10			
4675 10	0 [#]		
4800 10	(3)		
4950 10	2	0.30	
5000 10			
5200 50	(4)		
5540 50	3		
5960 50	(6)		
6120 50			
6900 50			
7140 50			
7510 50			
9168 7	4		T=(2) (1972Ko43)
9204 10	6		
9615 6	2		T=(2) (1972Ko43)
10900 50			E(level): observed by 1972Ko43 only.
14153 6	0		

[†] Based on analysis of angular distributions.

[‡] Enhancement factor; see 1973Ra25 and 1973Ba13 for discussion.

[#] From 1973Ba13.

[@] Possible doublet.