

$^{48}\text{Ti}(\text{pol d},\alpha)$ 1993Cr04,1986Ba47

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

E=22 MeV (1993Cr04); Q3D magnetic spectrograph with a focal plane detector; angular distributions, vector and tensor analyzing power. DWBA analysis.

E=7, 8, 8.25, 8.75, 9.25 and 9.75 MeV (1986Ba47); Enge split-pole magnetic spectrometer with a position sensitive proportional counter; cross sections at 4° ; DWBA analysis.

 ^{46}Sc Levels

E(level) [†]	J^π [‡]	L [#]	Comments
0.0	4 ⁺		
52 12	6 ⁺		
142 12	1 ⁻		
228 12	3 ⁺	2	
281 12	5 ⁺		
289 12	2 ⁻		
444 12	2 ⁺		
584 12	3 ⁻		
628 12	4 ⁻		
774 12	5 ⁺	4	
835 12	4 ⁺		
977 12	7 ⁺		
991 12	1 ⁺		
1088 12	4 ⁺		
1121 12			
1124 12	4 ⁻		
1141 12			
1270 12	4 ⁻		
1289 12			
1321 12	3 ⁺ , (4 ⁺)		$J^\pi=2^-$ (1986Ba47).
1394 12	2 ⁺		
1430 12	(2 ⁺)		$J^\pi=2^-$ (1986Ba47).
1526 12	(2 ⁺ , 3, 4 ⁺)		
1642 12	4 ⁻	3	$J^\pi=4^-$ (1986Ba47).
1677 12			
1692 12	3 ⁻		$J^\pi=(3, 4^-)$ (1986Ba47).
1708 12	3 ⁻ , 2 ⁻		$J^\pi=1^-$ (1986Ba47).
1753 12			$J^\pi=(2, 4, 6)^+$ (1986Ba47).
1765 12	2 ⁺ , 3 ⁺ , 4 ⁺		
1799 12	2 ⁺ , 3 ⁺		
1852 12	1 ⁺	0+2	$J^\pi=1^+$ (1986Ba47).
1920 12	2 ⁺		$J^\pi=3^+$ (1986Ba47).
2126 12			$J^\pi=1^+$ (1986Ba47).
2255 12			$J^\pi=3^+$ (1986Ba47).

[†] From 1986Ba47.

[‡] From Adopted Levels, except as noted.

[#] From 1993Cr04 based on analysis of angular distributions, and vector and tensor analyzing power.