⁴⁶Ti(t,³He) **1985Aj03**

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

E=25 MeV. Q3D magnetic spectrometer at θ =5.5° to 50°, position-sensitive detector; measured angular distributions.

⁴⁶Sc Levels

E(level)	$J^{\pi \ddagger}$	L	Comments		
0.0	4+	4			
52 5	6+	6			
143 5					
228 5	3+	2+4			
288 8	2^{-} &(5,6) ⁺	1+3	Includes unresolved known levels at 280.7 (5,6) ⁺ and 289.5 2		
446 5	2+	2			
586 <i>5</i>	$2^{+},3^{-}$	2.5			
625 8	4 ⁻ 5 ⁺	3+5			
772 <i>5</i> 826 <i>15</i>	4 ⁺	4+6 4			
981 <i>10</i>	4	4	Unresolved from 997 level; J=1 ⁺ , L=0+2 measured.		
997 15			Unresolved from 981 level; $J=1^+$, $L=0+2$ measured.		
1092 15	3+	2+4	omesoried from you leter, v. 1., 2. 0.12 measured.		
1130 <i>15</i>			Unresolved from 1150 level; J=4 ⁻ , L=3+5 measured.		
1150 <i>15</i>			Unresolved from 1130 level; J=4 ⁻ , L=3+5 measured.		
1274 10	2-	1+3			
1322 [†] <i>20</i>	2^{-}	1+3			
1392 <i>15</i>	2+	2			
1427 10	2-	1+3			
1525 15	2- 4-				
1642 10	3-,4-				
1708 <i>10</i> 1735 <i>20</i>	3-,2-				
1802 10			Includes unresolved known levels at 1799.4 and 1804.		
1848 10	(1^+)	(0+2)	includes different from fevers at 1777.1 and 100 ii		
1917 <i>10</i>	2+	2			
2047 15					
2074 15					
2113 <i>15</i>	3+,2+				
2210 15	2+	2	Includes unresolved known levels at 2208 and 2222.5.		
2246 15	3 ⁺	2+4			
2287 15	2 ⁻ 2 ⁺	1+3	In also decreased by a large series of 2207 and 2224		
2320 20 2397 20	2 3 ⁺	2 2+4	Includes unresolved known levels at 2307 and 2334.		
2434 [†] 20	3 ⁺		Includes unresolved known levels at 2441.7 and 2455.		
2434 20 2557 <i>15</i>	3 4 ⁺	2+4 4	includes unresolved known levels at 2441.7 and 2455.		
2585 [†] 15		7			
2383 13 2734 <i>15</i>	3 ⁻ ,4 ⁻ 2 ⁺	2			
$2734 13$ $2770^{\dagger} 20$	2	2	1 1 1 1 1 1 4 2770 1 2707		
2770 20 2814 <i>15</i>			Includes unresolved known levels at 2770 and 2786.		
2851 [†] 20			Includes unresolved known levels at 2833.7 and 2863.1.		
2882 [†] <i>15</i>			Includes unresolved known levels at 2863.1 and 2897.		
2950 [†] 20			Includes unresolved known levels at 2939 and 2956.8.		
2974 15	$(2,3)^+$				
3016 <i>15</i>	1+	0+2	Includes unresolved known levels at 3005 and 3017.3.		

⁴⁶Ti(t,³He) 1985Aj03 (continued)

⁴⁶Sc Levels (continued)

E(level)	$J^{\pi \ddagger}$	L	Comments
3100 [†] <i>30</i>	1+	0+2	Includes unresolved known levels at 3087 and 3116.
3185 20 3220 <i>15</i>			
3268 [†] 15			Includes unresolved known levels at 3241 and 3287.
3335 <i>15</i> 3377 <i>15</i>	1+	0+2	
3420 15			
3446 <i>15</i> 3489 [†] <i>15</i>			Includes unresolved known levels at 3472.2 and 3493.0.
3523 [†] 20	1+	0+2	Includes unresolved known levels at 3539 and 3544.
3607 <i>15</i> 3648 [†] <i>15</i>			Includes unresolved known levels at 3618, 3630, 3661.
3700 [†] 20			Includes unresolved known levels at 3695 and 3715.
3745 20	3 ⁺	2+4	
3784 [†] 20 3860 20			
3899 [†] 20			
3980 <i>15</i>			
4010 [†] <i>15</i> 4070 <i>15</i>			
4098 <i>15</i> 4136 <i>15</i>			
4167 <i>15</i>			
4509 <i>15</i>			
4650 <i>20</i> 4700 <i>20</i>			
4220 20 4257 20 4509 15 4650 20			

 $^{^{\}dagger}$ Width of group indicated probable multiplet. ‡ From coupled-channels analysis of angular distributions.