

$^{48}\text{Ti}(\text{d}, ^3\text{He})$ 1979Do12

| Type | Author | History Citation | Literature Cutoff Date |
|-----------------|---------------|---------------------|------------------------|
| Full Evaluation | T. W. Burrows | NDS 108, 923 (2007) | 20-Feb-2007 |

E=52 MeV. Measured $\sigma(\theta)$; Si telescope. FWHM=100-115 keV. DWBA. Other: See [1995Bu05](#) for (pol d, ^3He).

 ^{47}Sc Levels

| E(level) | J^π [†] | L | C ² S | E(level) | J^π [†] | L | C ² S |
|--------------------------|----------------------|--------------------|-------------------|---------------------------|----------------------|---|------------------|
| 0.0 | 7/2 ⁻ | 3 | 2.07 | 3.91×10 ³ | | | |
| 763 [‡] 5 | 3/2 ⁺ | 2 [‡] | 3.93 [‡] | 4.00×10 ³ @ 15 | 5/2 ⁺ | 2 | 0.72 |
| 808 [‡] 7 | 3/2 ⁻ | 1 [‡] | 0.24 [‡] | 4.39×10 ³ | 5/2 ⁺ | 2 | 0.38 |
| 1156 [‡] 10 | | (2,3) [‡] | # | 4.63×10 ³ | 5/2 ⁺ | 2 | 0.44 |
| 1384 [‡] 5 | 1/2 ⁺ | 0 | 1.71 | 5.75×10 ³ @ 20 | 5/2 ⁺ | 2 | 0.57 |
| 2.00×10 ³ @ 1 | 3/2 ⁺ | 2 | 0.34 | 6.04×10 ³ | 5/2 ⁺ | 2 | 0.45 |
| 2.35×10 ³ @ 5 | 5/2 ⁺ | 2 | 0.60 | 6.47×10 ³ | 5/2 ⁺ | 2 | 0.21 |
| 2.54×10 ³ | | | | 6.99×10 ³ | 5/2 ⁺ | 2 | ≤0.23 |
| 2.86×10 ³ | 3/2 ⁻ | 1 | ≤0.06 | 7.28×10 ³ | 5/2 ⁺ | 2 | ≤0.27 |
| 3.25×10 ³ | | | | 7.54×10 ³ | 5/2 ⁺ | 2 | ≤0.27 |

[†] Assumed for DWBA analysis.

[‡] From [1971Oh02](#) (E=19.5 MeV; s, position-sensitive focal plane detector 20 keV FWHM, DWBA). C²S(g.s.)=1.95.

If L=2, C²S(5/2⁺)=0.15, C²S(3/2⁺)=0.21; if L=3, C²S(7/2⁻)=0.18, C²S(5/2⁻)=0.35 ([1971Oh02](#)).

@ From [1967Hi09](#) (E=52 MeV; Si).