

$^{48}\text{Ti}(\mu^-, n\gamma)$: At rest 2006Eg04

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

Enriched target. μE4 beam line of the Paul Scherrer Institute, Villigen, Switzerland. Measured $E\gamma$'s and muon lifetimes; three HPGe γ -detectors, two thin pass-through counters. Compared to Primakoff formula.
 $\tau(\mu)=362.9$ ns 18. Total capture rate= 2756×10^3 13 per second.

 ^{47}Sc Levels

E(level) [†]	J^π [†]
0.0	$7/2^-$
767	$(3/2)^+$
808	$3/2^-$
1297	$5/2^-$
1404	$5/2^+$

[†] From the Adopted Levels. Energies are nominal values.

 $\gamma(^{47}\text{Sc})$

E_γ	$E_i(\text{level})$	J_i^π	E_f	J_f^π	Comments
^x 121					
^x 131					
^x 147					
^x 227					
^x 370					
767 [†]	767	$(3/2)^+$	0.0	$7/2^-$	272 ns delay.
808	808	$3/2^-$	0.0	$7/2^-$	
1297	1297	$5/2^-$	0.0	$7/2^-$	
1404	1404	$5/2^+$	0.0	$7/2^-$	

[†] Placement of transition in the level scheme is uncertain.

^x γ ray not placed in level scheme.

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Legend

Level Scheme

-----► γ Decay (Uncertain)

