Ti(n,n′),(n,n′γ) E=1.0-5.9 MeV 1978Sm04,1974Di08

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	T. W. Burrows[a]	NDS 109, 1879 (2008)	14-Jul-2008

^{49}Ti Levels

1978Sm04 measured $\sigma(\theta)$; tof. Identification made by comparison to Nuclear Data Sheets available to authors. Most "states" observed have possible contributions from several isotopes of titanium.

E(level)†	Jπ‡
0.	7/2−
1382# *4*	3/2−
1541 *30*	11/2−
1586# *4*	3/2−
1670 *80*	
1761# *5*	5/2−
2304? *22*	
2615? *10*	
2845?	
3010?	

† From 1978Sm04, except As noted.
‡ From the Adopted Levels.
# From Eγ of 1974Di08.

γ(^{49}Ti)

1974Di08 measured σ_γ(THETA); tof.

Eγ	σ_γ, mb/sr†	E_i(level)	J_i^π	E_f	J_f^π	Comments
1382 *4*	0.5 *2*	1382	3/2−	0.	7/2−	σ_γ, mb/sr: peak likely due to more than one G.
1586 *4*	0.3 *1*	1586	3/2−	0.	7/2−	
1761 *5*	0.5 *2*	1761	5/2−	0.	7/2−	
x1863‡ *5*	0.4 *2*					probably associated with ^{47}Ti, ^{49}Ti, or ^{51}Ti.

† E(n)=4.9 MeV *2* and θ=125°. Additional data taken At 5.40 MeV *15* and 5.90 MeV *15*, θ=55°.
‡ Placement of transition in the level scheme is uncertain.
x γ ray not placed in level scheme.

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Level Scheme

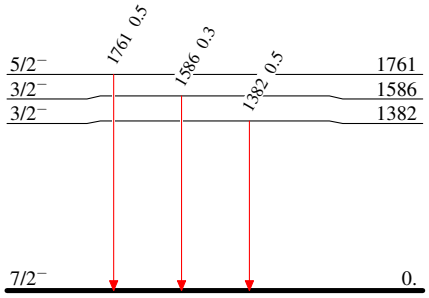
Intensities: σ_γ, mb/sr

Legend

$I_\gamma < 2\% \times I_\gamma^{max}$

$I_\gamma < 10\% \times I_\gamma^{max}$

$I_\gamma > 10\% \times I_\gamma^{max}$



$^{49}_{22}Ti_{27}$