Coulomb excitation (α,$\alpha'\gamma$) 1981Ma08

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

Eα=5.25-5.8 MeV. Measured γ's At 90°. Others: see 1995Bu23.

^{49}Ti Levels

E(level)[†]	J$^\pi$[‡]	$T_{1/2}$[#]	Comments
0.0	7/2$^-$		
1381.77 *4*	3/2$^-$	3.4 ps *4*	
1542.15 *4*	11/2$^-$	1.00 ps *10*	
(1586.00 *4*)	3/2$^-$	>5.5 ps	No Coulomb excitation observed.

[†] From (p,p'γ) data of 1981Ma08.
[‡] From Adopted Levels.
[#] From B(E2)↓ measured relative to B(E2)↓(^{48}Ti 983γ)=0.0138 *12* from B(E2)↓=0.069 *6* (1970Ha24). Note B(E2)↓(^{48}Ti 983γ)=0.0144 *8* from B(E2)↑=0.072 *4* (1987Ra01).

γ(^{49}Ti)

E_i(level)	J_i^π	E_γ[†]	I_γ[†]	E_f	J_f^π	Comments
1381.77	3/2$^-$	1381.8	100	0.0	7/2$^-$	
1542.15	11/2$^-$	1542.2	100	0.0	7/2$^-$	
(1586.00)	3/2$^-$	(1586.0)		0.0	7/2$^-$	looked for but not observed.

[†] From (p,p'γ) data of 1981Ma08. % photon branching from each level.

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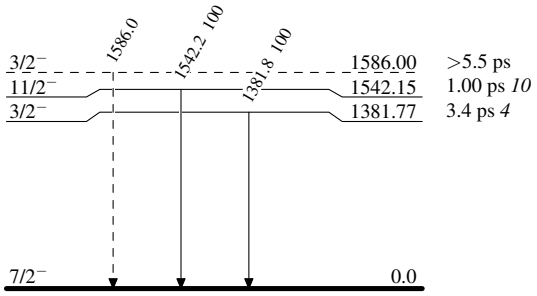
Legend

Level Scheme

Intensities: % photon branching from each level

- - - - - - ► γ Decay (Uncertain)



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