^{46}Ti(α,α'),(α,$\alpha'\gamma$)

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

E=104 MeV (1974Re01); 4 Si EDE counter telescopes; optical model analysis of angular distributions.
E=27.2 MeV (1974Al10); 5 Si(Li) detectors; DWBA analysis of angular distributions.
E not given (1972RoZW); no experimental details given; measured DSA in (α,$\alpha'\gamma$).
E=44 MeV (1970Br07,1966Br19); Si(Li), Si EDE counter telescopes; Austern-Blair model analysis of angular distributions.
E=43 MeV (1967Yn01); Si EDE counter telescope; DWBA analysis of angular distributions.
Others: 1994Ra29, 1992Ra21.

^{46}Ti Levels

E(level)[†]	$T_{1/2}$	L	$\beta_L R$[‡]	Comments
0.0				
890		2	0.95	Q=−0.27 *1*; B(E2)↑=0.0874 *56* Prolate deformation deduced by 1974Re01. β_2=0.24 *2*.
2009	3.2 ps *+12−6*	4		B(E4)↑=0.93×10^{-4} *10* (1974Re01) $T_{1/2}$: from DSA, presumably of 1121γ, although Eγ not stated (1972RoZW).
3010		3	0.27	E(level): probably corresponds to 3059 adopted level.
3240		5	0.27	J^π: adopted 3236 level has J=2$^+$ indicating possible doublet.
3540		3	0.30	E(level): probably corresponds to 3569, J=(4$^+$,3$^-$) adopted level.
3840		(5)		
4140		3	0.33	E(level): probably corresponds to 4178 adopted level.
4730				
5030		4	0.19	
5270		6	0.16	
5870		3	0.29	
6390				

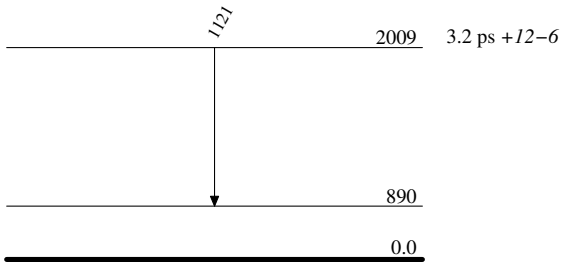
[†] From 1970Br07; ΔE not given.
[‡] From 1970Br07.

γ(^{46}Ti)

Eγ	E$_i$(level)	E$_f$	Comments
1121	2009	890	Eγ: from adopted γ's.

^{46}**Ti**(α,α'),(α,$\alpha'\gamma$)

Level Scheme



$^{46}_{22}Ti_{24}$