

$^{45}\text{Sc}(\text{d,p}\gamma)$ 1968Fo01

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

E=3.2 MeV.

Si detector at $\theta=45^\circ$ for p; Ge(Li), NaI, or plastic scintillator for γ 's; measured E γ with Ge(Li), p γ -delayed coin with others. ^{46}Sc Levels

E(level) [†]	J π [†]	T _{1/2} [‡]	Comments
0.0	4 ⁺		
52	6 ⁺	8.8 μs 4	
143	1 ⁻	18.75 s	T _{1/2} : from Adopted Levels.
228	3 ⁺	<270 ps	
281	5 ⁺	<270 ps	
290	2 ⁻	<380 ps	
444	2 ⁺	<270 ps	
585	3 ⁻	<270 ps	
627	4 ⁻	<200 ps	
835	4 ⁺	<200 ps	

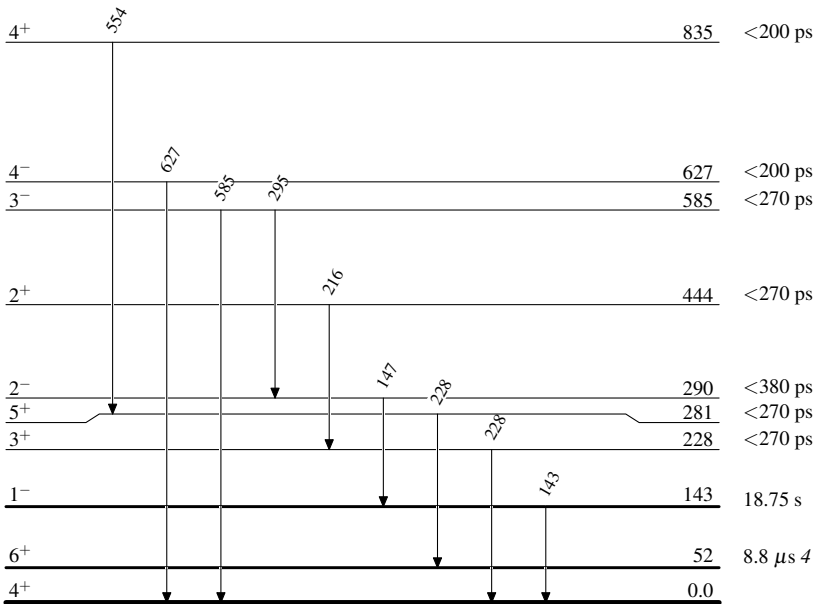
[†] From Adopted Levels.[‡] From analysis of p γ -delayed coin, except as noted. $\gamma(^{46}\text{Sc})$ γ 's are those used for timing measurements.

E γ [†]	E _i (level)	J π _i	E _f	J π _f
143	143	1 ⁻	0.0	4 ⁺
147	290	2 ⁻	143	1 ⁻
216	444	2 ⁺	228	3 ⁺
228	228	3 ⁺	0.0	4 ⁺
228	281	5 ⁺	52	6 ⁺
295	585	3 ⁻	290	2 ⁻
554	835	4 ⁺	281	5 ⁺
585	585	3 ⁻	0.0	4 ⁺
627	627	4 ⁻	0.0	4 ⁺

[†] From adopted γ 's.

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Level Scheme



$^{46}_{21}\text{Sc}_{25}$