^{35}Cl(t,$\alpha\gamma$) 1976Co11

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	Ninel Nica, Balraj Singh	NDS 113, 1563 (2012)	28-May-2012

^{35}Cl J$^{\pi}$: 3/2^{+}.

1976Co11: ^{35}Cl(t,$\alpha\gamma$) inverse kinematics E_{Cl}=55 MeV, target of tritiated titanium hydrate on Cu backing. Used Au stopper, 50−μm Si surface barrier detector (ΔE), 5-mm Ge detector (E), and Ge(Li) detector. Measured γ, α-γ coin and $T_{1/2}$ by recoil-distance method.

^{34}S Levels

E(level)[†]	$T_{1/2}$	Comments
0.0		
2127		
3304		
4622		
4688		
5689	38 ps *5*	$T_{1/2}$: 1976Co11 report mean lifetime τ In ps: 55 *7*.

[†] Quoted by 1976Co11 As from 1973EnVA.

γ(^{34}S)

E_γ[†]	E_i(level)	E_f
1002	5689	4688
1066	5689	4622
1176	3304	2127
1322	4622	3304
2126	2127	0.0
2495	4622	2127
2559	4688	2127

[†] Measured by 1976Co11 (reported with No uncertainties).

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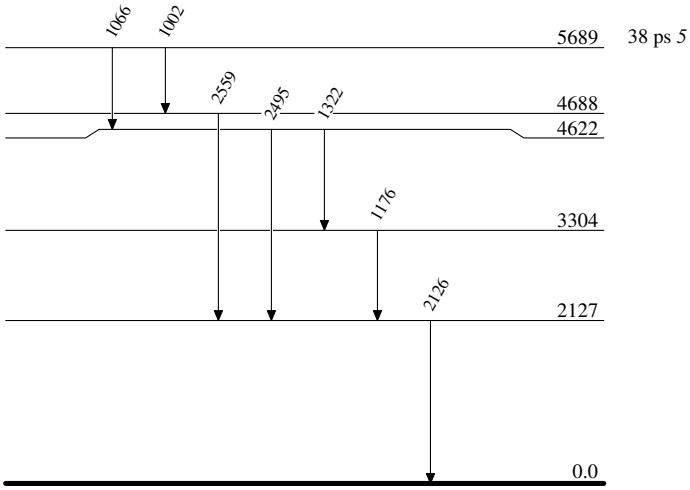
Level Scheme



$^{34}_{16}S_{18}$