^{6}Li(^{35}Cl,dγ) 1972Bo36

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	Jun Chen	NDS 149, 1 (2018)	1-Jan-2018

1972Bo36: E=68 MeV ^{35}Cl beam was produced from the Stanford University FN tandem Van de Graaff. Target was a 250 μg/cm^2 LiF film on a 400 μg/cm^2 nickel foil. γ rays were detected with a 55-cm^3 Ge(Li) crystal. Measured Eγ, Iγ, recoil-distance Doppler shift. Deduced $T_{1/2}$, transition strengths.

^{39}K Levels

E(level)[†]	J$^\pi$[‡]	$T_{1/2}$[#]
0	3/2$^+$	
2815 *1*	7/2$^-$	56 ps *6*
3598 *1*	9/2$^-$	41 ps *3*

[†] From Eγ.
[‡] From Adopted Levels.
[#] From recoil-distance Doppler-shift method in 1972Bo36.

γ(^{39}K)

E_i(level)	J_i^π	Eγ[†]	Iγ[†]	E_f	J_f^π
2815	7/2$^-$	2815 *1*		0	3/2$^+$
3598	9/2$^-$	783 *1*	39	2815	7/2$^-$
		3598 *1*	61	0	3/2$^+$

[†] From 1972Bo36.

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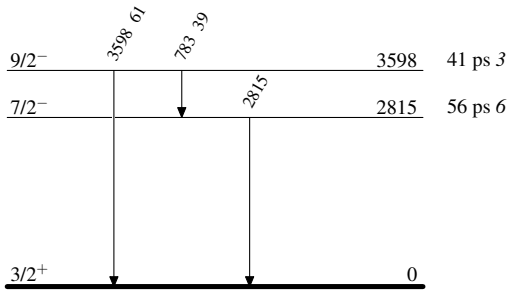
Level Scheme

Intensities: % photon branching from each level



$^{39}_{19}K_{20}$