^{38}Cl IT decay (715 ms) 1972Br53,1974Gr48,1962Ki09

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	Jun Chen	NDS 152, 1 (2018)	30-Sep-2017

Parent: ^{38}Cl: E=671.361 *8*; $J^\pi=5^-$; $T_{1/2}$=715 ms *3*; %IT decay=100.0

1972Br53: measured $T_{1/2}$.

1974Gr48, 1962Ki09: measured Eγ, ce, $T_{1/2}$.

1954Sc37: measured $T_{1/2}$.

^{38}Cl Levels

E(level)	J^π†	$T_{1/2}$	Comments
0	2^-		
671.361 *8*	5^-	715 ms *3*	%IT=100 $T_{1/2}$: from 1972Br53. Others: 0.77 s *5* (1974Gr48), 0.74 s *3* (1962Ki09), 1.0 s *2* (1954Sc37). Additional information 1.

† From Adopted Levels.

γ(^{38}Cl)

E_γ	I_γ†	E_i(level)	J_i^π	E_f	J_f^π	Mult.	α‡	$I_{(\gamma+ce)}$†	Comments
671.360 *8*	99.95 *1*	671.361	5^-	0	2^-	M3	5.99×10^{-4}	100	α(exp)=0.00050 *12* (1962Ki09) E_γ: from 1980LeZH in (n,γ) E=thermal. Other: 671.33 *20* (1974Gr48). I_γ: deduced from I(γ+ce)=100 and theoretical conversion coefficient calculated using the BrIcc code.

† Absolute intensity per 100 decays.

‡ Total theoretical internal conversion coefficients, calculated using the BrIcc code (2008Ki07) with Frozen orbital approximation based on γ-ray energies, assigned multipolarities, and mixing ratios, unless otherwise specified.

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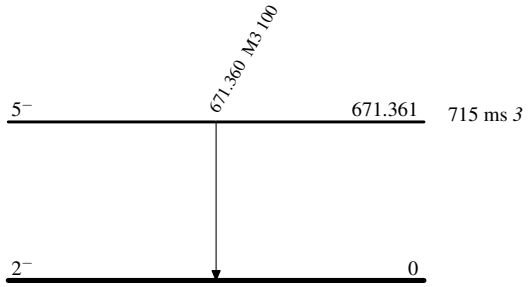
Decay Scheme

Intensities: $I_{(\gamma+ce)}$ per 100 parent decays

%IT=100.0



$^{38}_{17}Cl_{21}$