
 ^{31}Cl $\varepsilon+\beta^+$ decay (190 ms) 2018Be12,2011SaZM,2006Ka11 (continued) **ϵ,β^+ radiations (continued)**

E(decay)	E(level)	Comments
		similar log ft value of 5.53 for $3/2^+$ parent to $1/2^+$ g.s. β transition in the decay of ^{31}Si mirror nucleus to ^{31}P .

[†] From γ -intensity balances considering corrections for internal conversion are negligible. Above 6.9 MeV excitation, values are deduced from proton intensities in [2011SaZM](#).

[‡] Absolute intensity per 100 decays.

[#] Existence of this branch is questionable.

$^{31}\text{Cl } \varepsilon+\beta^+$ decay (190 ms) [2018Be12](#),[2011SaZM](#),[2006Ka11](#) (continued)

$\gamma(^{31}\text{S})$ (continued)

E_γ^\dagger	$I_\gamma^{\dagger b}$	$E_i(\text{level})$
^x 7279.1 [#] 10	0.24 [#] 7	
^x 7415.8 [#] 10	0.15 [#] 6	
^x 7630.8 [@] 7	0.15 [@] 5	
^x 7643.5 [@] 8	0.09 [@] 5	

[†] From [2018Be12](#), unless otherwise stated. Intensities from [2011SaZM](#) listed under comments are on a different scale than in [2018Be12](#). Values in [2011SaZM](#) can be multiplied by a factor of 0.53 to compare these with values from [2018Be12](#).

[‡] New γ ray reported by [2018Be12](#).

[#] Tentative γ from [2011SaZM](#) placed as a ground-state transition; not confirmed by [2018Be12](#).

[@] From [2011SaZM](#) placed as a ground-state transition; not confirmed by [2018Be12](#).

[&] From [2011SaZM](#), and placed from 3076 level, where the fitting was poor. This γ is not confirmed by [2018Be12](#); authors fitted energy region and gave $I\gamma \leq 0.018$ 4 at 90% confidence level.

^a From Adopted Gammas.

^b Absolute intensity per 100 decays.

^c 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.

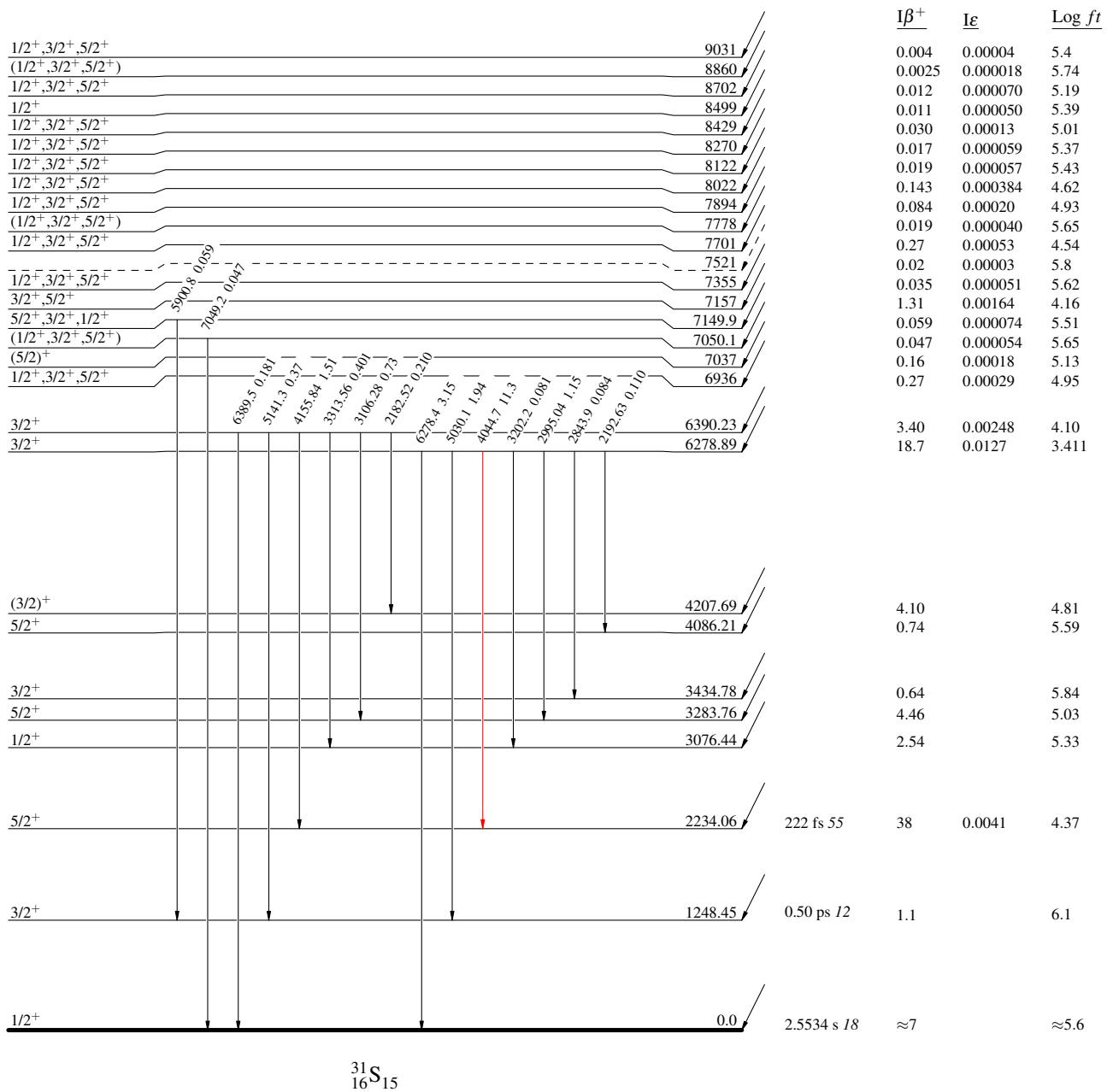
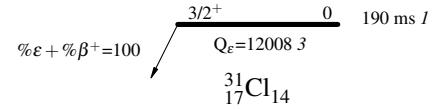
^x γ ray not placed in level scheme.

^{31}Cl ε decay (190 ms) 2018Be12,2011SaZM,2006Ka11Decay Scheme

Legend

Intensities: I_γ per 100 parent decays

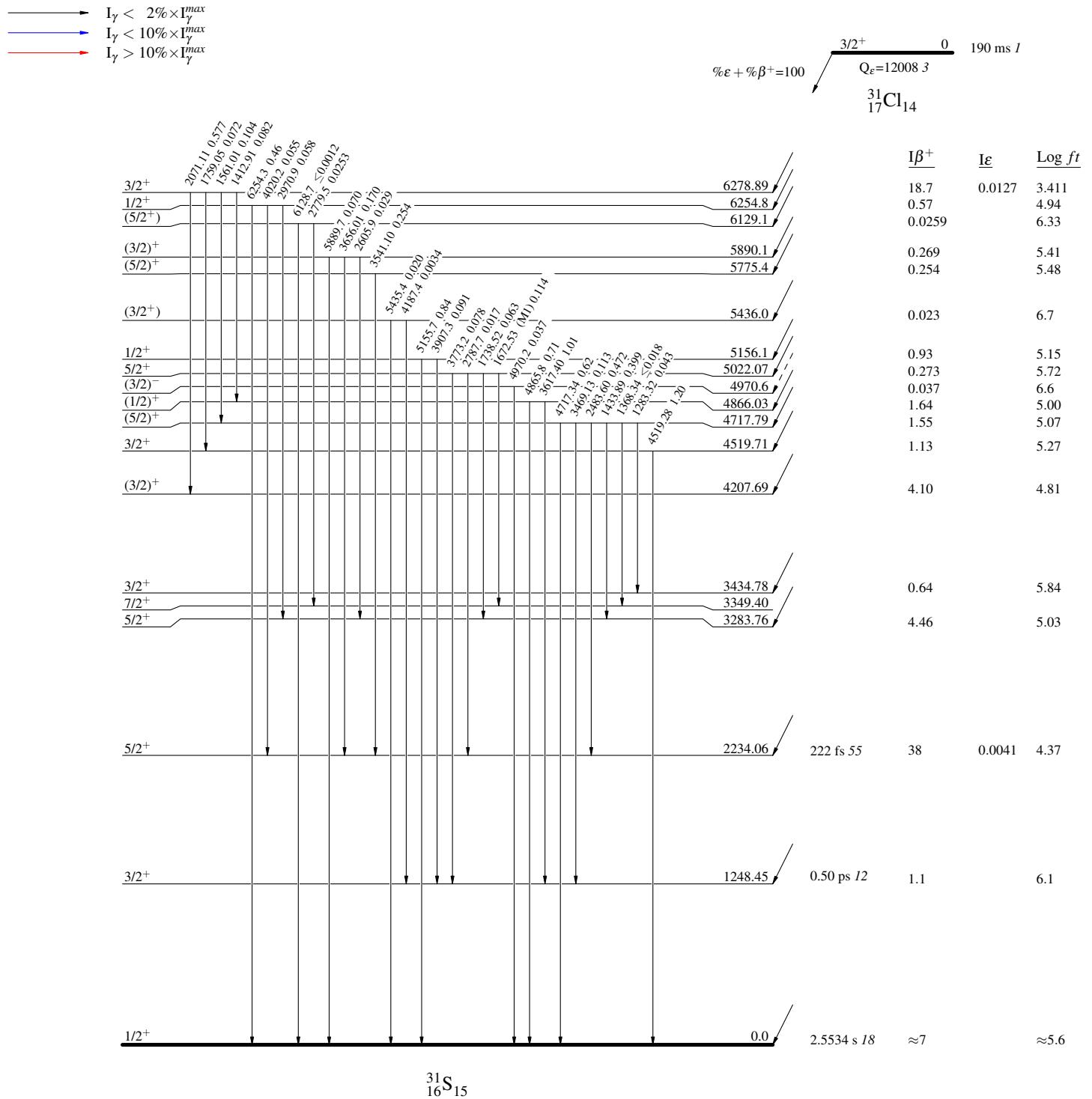
- $I_\gamma < 2\% \times I_\gamma^{\max}$
- $I_\gamma < 10\% \times I_\gamma^{\max}$
- $I_\gamma > 10\% \times I_\gamma^{\max}$



$^{31}\text{Cl} \varepsilon$ decay (190 ms) 2018Be12,2011SaZM,2006Ka11

Decay Scheme (continued)

Legend

Intensities: I_γ per 100 parent decays

$^{31}\text{Cl} \epsilon$ decay (190 ms) 2018Be12,2011SaZM,2006Ka11Decay Scheme (continued)

Legend

Intensities: I_γ per 100 parent decays