^{34}Cl ε decay (1.5266 s)   **2006Ia05,1983Ko22,1976Wi08**

History

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

Parent: ^{34}Cl: E=0; $J^{\pi}=0^+$; $T_{1/2}$=1.5266 s *4*; Q(ε)=5491.634 *43*; %ε+%β^+ decay=100.0

^{34}Cl-J^{π},$T_{1/2}$: From ^{34}Cl Adopted Levels.

^{34}Cl-Q(ε): From 2011AuZZ. Other: 5492.01 *15* (2003Au03).

Half-life measurements: 2006Ia05, 1983Ko22, 1976Wi08, 1973Ry01, 1972Ha82, 1965Eb01, 1965Fr06, 1961Ja22, 1960Ja12, 1958Mi85, 1954Kl36.

β^+ spectrum measurement: 1956Gr07, 1953St42, 1951Ru24.

β polarization measurement: M. Deutsch et al., Phys. Rev. 107, 1733 (1957).

Energy balance: total decay energy of 5491.88 keV *18* deduced (using RADLIST code) from proposed decay scheme is in agreement with the expected value of 5491.63 keV *4*, indicating that decay scheme is complete.

^{34}S Levels

E(level)	J^{π}	$T_{1/2}$
0	0^+	stable

ε,β^+ radiations

E(decay)	E(level)	$I\beta^+$ [†]	$I\varepsilon$ [†]	Log ft	$I(\varepsilon+\beta^+)$ [†]	Comments
(5491.63 *4*)	0	99.9208 *8*	0.0792 *8*	3.48448 *12*	100	av Eβ=2052.18; εK=0.0007161; εL=6.738×10^{-5}; εM+=8.233×10^{-6} Measured Eβ=4500 *30* (1956Gr07).

[†] Absolute intensity per 100 decays.