

$^{11}\text{C} \beta^+ \text{ decay}$ 2002Wo02

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	J. H. Kelley, C. G. Sheu		NP A880,88 (2012)	1-Jan-2011

Parent: ^{11}C : E=0.0; $J^\pi=3/2^-$; $T_{1/2}=1221.8$ s 8; $Q(\beta^+)=1982.4$ 10; % β^+ decay=100

^{11}C -T_{1/2}: $T_{1/2}=1221.8$ s 8 = 20.364 min 14. From weighted average of $T_{1/2}=20.334$ min 24 (2002Wo02), 20.382 min 20 (1975Az01), 20.34 min 4 (1964Ka31) and 20.40 min 4 (1969Aw02).

1975Az01: ^{11}C , measured $T_{1/2}$. Calculate log f_t .

1975Be28: ^{11}C , measured $T_{1/2}$, β^- shape spectrum. Deduced $E_\beta(\text{MAX})$, f_t , shape factors.

1995Go34: ^{11}C , compiled, reviewed β^- decay asymmetry data.

2000Le02: $^{11}\text{C}(\beta^+)$, measured $T_{1/2}$.

2002Wo02: $^{11}\text{C}(\beta^+)$, (ε), measured E_γ , I_γ , $\beta\gamma$ -coin, $T_{1/2}$.

2004Ni04: $^{11}\text{C}(\varepsilon)$, (β^+), measured $\beta\gamma$ -coin. Deduced activity.

See (1980Aj01) for references; see also (1985Aj01).

[Additional information 1](#).

 ^{11}B Levels

E(level)	J^π
0	$3/2^-$

 ε, β^+ radiations

E(decay)	E(level)	$I\beta^{+\dagger}$	$I\varepsilon^{\dagger}$	Log f_t	$I(\varepsilon + \beta^+)^{\dagger}$	Comments
(1982.4 17)	0	99.7669 25	0.2331 25	3.5921 19	100	av $E\beta=385.70$ 44; $\varepsilon K=0.002218$ 8; $\varepsilon L=0.0001132$ 4 $I\beta^+$: calculated from $\varepsilon K(\text{exp})/I\beta^+=0.230\times 10^{-2}$ +14-11 and theoretical $\varepsilon K(\text{exp})/\varepsilon L(\text{exp})$ ratio.

[†] Absolute intensity per 100 decays.