

^{12}Be β^- decay [1999Be53](#),[2002Be53](#)

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	J. H. Kelley, J. E. Purcell and C. G. Sheu		NP A968, 71 (2017)	1-Jan-2017

Parent: ^{12}Be : $E=0.0$; $J^\pi=0^+$; $T_{1/2}=21.46$ ms 5; $Q(\beta^-)=11708.4$ 23; $\% \beta^-$ decay=100.0

^{12}Be - $Q(\beta^-)$: from [2017Wa10](#).

[1984Du15](#): $^{12}\text{Be}(\beta^-)$, measured $T_{1/2}$.

[1986Cu01](#): $^{12}\text{Be}(\beta^-)$, measured β^- decay, $T_{1/2}$.

[1986HaYX](#): ^{12}Be , measured β^- decay $T_{1/2}$.

[1988Sa04](#): ^{12}B , measured β^- decay, $T_{1/2}$.

[1994Ke06](#): $^{12}\text{Be}(\beta^-)$, measured $\beta\gamma$ -coin, $T_{1/2}$. Deduced ft . ^{12}B levels deduced β^- -branching ratio.

[1999Be53](#): $^{12}\text{Be}(\beta^-)$, measured β^- -delayed neutrons, βn and nn time correlations. ^{12}Be deduced neutron emission probabilities, branching ratios.

[2001Be53](#): $^{12}\text{Be}(\beta^-)$, measured $T_{1/2}$, βn and $\beta 2n$ branching ratios, neutron spectra.

[2002Be53](#): $^{12}\text{Be}(\beta^-)(\beta^- n)$, measured E_β , β^- -delayed neutron spectra, $T_{1/2}$. Deduced decay branching ratios.

[2010Zh03](#): ^{12}B , measured β -NMR spectra; deduced magnetic moments.

 ^{12}B Levels

E(level)	J^π	$T_{1/2}$
0	1^+	20.20 ms 2

 β^- radiations

E(decay)	E(level)	$I\beta^{-\dagger}$	Log ft	Comments
(11708.4 23)	0	99.50 3	3.7952 11	av $E\beta=5615.1$ 12 At least two neutron-unbound states are fed in the decay (1994Ke06). The β -n%=0.50 3 (1999Be53); see also (1991Re02) and (1978A110,1984Du15).

\dagger Absolute intensity per 100 decays.