${}^{8}\mathbf{B}\,\beta^{+}\,\mathbf{decay}$ **1989Ba31,1969Ba43**

	History		
Туре	Author	Citation	Literature Cutoff Date
Update	J. H. Kelley, J. L. Godwin, C. G. Sheu	ENSDF	31-Mar-2004

Parent: ⁸B: E=0.0; $J^{\pi}=2^+$; $T_{1/2}=770 \text{ ms } 3$; $Q(\beta^+)=17979.8 \ 10$; $\%\beta^+$ decay=100

1986Wa01: ⁸B(β^+), analyzed β -delayed breakup α -spectra. Deduced intruder states role.

1989Ba31: ⁸B(β^+); calculated α -spectra. ⁸Be deduce possible broad intruder state. Many-level R-matrix fit.

1993Ch06: ⁸B(β^+), analyzed Gamow-Teller β -decay data. Deduced log *ft*, β -decay matrix elements.

2000Or04: ⁸B(EC), measured β -delayed α spectrum. Deduced neutrino spectrum. Implications for solar neutrino measurements discussed.

2002Bh03: ⁸B(EC), analyzed β -delayed E_{α} .

2003Wi11: ⁸B(β^+), (EC), measured β -delayed E_{α}.

2003Wi16: ⁸B($\beta^+\alpha$), measured β -delayed E_{α}, I_{α}, β - α -coin. Deduced neutrino spectrum.

⁸Be Levels

E(level)	$J^{\pi \dagger}$	T _{1/2} †	Comments
0.0 3030 <i>10</i> 16626 <i>3</i>	0^+ 2^+ 2^+	5.57 eV 25 1513 keV 15	%α=100

[†] From Adopted Levels.

ε, β^+ radiations

E(decay)	E(level)	$I\beta^{+\dagger}$	Ιε	Log ft	$\mathrm{I}(\varepsilon + \beta^+)^{\dagger}$	Comments
(1353.8 <i>33</i>)	16626	<12	< 0.45	>3.3	<12	av E β =123.9 13; ε K=0.0356 11; ε L=0.00149 5
(14950 10)	3030	>88		<5.6	>88	log fr from (1969Ba43). av E β =6732 5 log fr=5.77 from (1989Ba31). Because broad levels of ⁸ Be

log ft=5.77 from (1989Ba31). Because broad levels of ⁸Be participate In the β^- decay, it is necessary to make detailed computations to determine the log ft value.

[†] Absolute intensity per 100 decays.