

Table 11.15 from (1980AJ01): Beta decay of ^{11}Be (1971AL07) ^a

$^{11}\text{B}^*$ ^b (keV)	J^π ^c	I_β (%)	$\log ft$	E_γ (keV)	I_γ ^d (%)	Transition to $^{11}\text{B}^*$
g.s.	$\frac{3}{2}^-$	57 ± 3	6.81 ± 0.02			
2125.0 ± 0.7	$\frac{1}{2}^-$	29 ± 3	6.68 ± 0.04	2124.8 ± 0.7	33 ± 3	g.s.
4445	$\frac{5}{2}^-$	< 0.06	> 10.9 ^e			
5020.1 ± 1.7	$\frac{3}{2}^-$	0.28 ± 0.11	7.94 ± 0.14	5019.3 ± 1.7	0.47 ± 0.09	g.s.
				2893.1 ± 0.8	0.093 ± 0.028	2125
6742.7 ± 1.8 ^g	$\frac{7}{2}^-$	< 0.08				
6792.6 ± 1.8	$\frac{1}{2}^+$	6.8 ± 0.8	5.91 ± 0.05	6790.5 ± 1.8	4.51 ± 0.69	g.s.
				4666.3 ± 1.8	2.00 ± 0.28	2125
				1772.2 ± 0.7	0.28 ± 0.06	5020
7286	$(\frac{3}{2}, \frac{5}{2})^+$	< 0.16				
7978.1 ± 1.9	$\frac{3}{2}^+$	3.9 ± 0.5	5.58 ± 0.05	7974.7 ± 1.9	1.74 ± 0.30	g.s.
				5851.8 ± 1.9	2.13 ± 0.34	2125
8559	$\leq \frac{5}{2}^-$	< 0.06	> 7.0			
8920	$\frac{5}{2}^-$	< 0.02	> 8.5 ^e			
9875	$\frac{3}{2}^+$	3.0 ± 0.7 ^f	4.03 ± 0.15 ^f			

^a See also [Table 11.12 in \(1968AJ02\)](#).

^b When errors are indicated the excitation energies are determined in this experiment from the measured E_γ .

^c From [Table 11.3](#).

^d Intensity in % per β -decay, normalized to $(33 \pm 3)\%$ for the 2.13 MeV γ -intensity.

^e $\log f_1 t$. Q_0 assumed to be 11.506 ± 0.007 MeV.

^f Assuming that the breakup of $^{11}\text{B}^*(9.88)$ is solely to $^7\text{Li}_{g.s.}$. If the inelasticity for the breakup of $^{11}\text{B}^*(9.88)$ is that suggested by [\(1966CU02\)](#), then the β -branch is $15 \pm 3.5\%$, $\log ft = 3.33 \pm 0.15$, and the β branches to the other ^{11}B states have to be recalculated: see [\(1971AL07\)](#).

^g Energy derived from E_x of $^{11}\text{B}^*(6.79)$ and known ΔE of 4th and 5th excited states [\(1970BR23\)](#) [49.9 keV].