

Table 11.7 from (1990AJ01): Energy levels of ^{11}B from $^9\text{Be}(^3\text{He}, p)^{11}\text{B}$

E_x^a MeV \pm keV)	E_x^b MeV \pm keV)	$\Gamma_{\text{c.m.}}^b$ (keV)	L
0			0
2.1243 \pm 0.9			0
4.4434 \pm 1.8			0
5.0187 \pm 2.3			0
6.7411 \pm 3.0			
6.7909 \pm 3.1			1
7.285 \pm 10			
7.975 \pm 10			
8.553 \pm 10			0
8.909 \pm 10	8.934 \pm 15		0 + 2
9.175 \pm 10	9.183 \pm 15		(1) + 3
9.264 \pm 10	9.265 \pm 15	10 \pm 10	1 + 3
9.86 \pm 20	9.887 \pm 15	104 \pm 15	1
	10.265 \pm 25	168 \pm 25	2
	10.337 \pm 20	123 \pm 20	0 + 2
	10.580 \pm 20	122 \pm 20	1 + 3
	11.254 \pm 20	110 \pm 20	3
	11.437 \pm 20	103 \pm 20	(0 + 2)
	11.588 \pm 30	180 \pm 30	1 + 3
	11.889 \pm 20	204 \pm 20	0 + 2
	12.563 \pm 20 ^c	202 \pm 25	1
	12.920 \pm 20 ^c	155 \pm 25	2
	13.137 \pm 40	426 \pm 40	1 + 3
	\equiv 14.40 ^d	261 \pm 25	1 + 3
	14.565 \pm 15	\leq 30	(1)
	16.437 \pm 20 ^{c, e}	\leq 30	
	\equiv 17.69 ^{c, e}	91 \pm 25	(0 + 2)
	18.0 \pm 100 ^{c, e}	870 \pm 100	(1 + 3)
	19.146 \pm 30 ^{c, e}	115 \pm 25	3
	21.27 \pm 50 ^c	300 \pm 30	(1 + 3)

^a See [Table 11.9 in \(1980AJ01\)](#) for references and [Table 11.15](#) here.

^b $E(^3\text{He}) = 38$ MeV; DWBA analysis.

^c $T = \frac{3}{2}$ state.

^d This state may have mixed isospin ($T = \frac{1}{2} + T = \frac{3}{2}$).

^e Not observed in $^9\text{Be}(\alpha, \text{d})^{11}\text{B}$.