

Table 11.10 from (1980AJ01): Levels of ^{11}B from the $^{10}\text{Be}(p, \gamma_0)^{11}\text{B}$ reaction (1970GO04)

E_p (MeV \pm keV)	E_x (MeV)	$\Gamma_{\text{c.m.}}$ (keV)	$(J + \frac{1}{2})(\Gamma_p/\Gamma)\Gamma_{\gamma_0}$ ^e (eV)	Γ_{γ_0} ^{a,e} (eV)	$\Gamma_{\gamma_1}/\Gamma_{\gamma_0}$	J^π
(1.05 \pm 40) ^b	(12.18)	230 \pm 90	3.1 ^{+2.9} _{-2.0}			
1.46 \pm 30	12.56	230 \pm 65	10 ⁺⁷ ₋₅	10 ⁺⁷ ₋₅	0.25 \pm 0.08	$\frac{1}{2}^+(\frac{3}{2}^+)$
1.85 \pm 20	12.91	235 \pm 27	29 \pm 9	29 \pm 9 ^f	\leq 0.06	$\frac{1}{2}^-$ ^c
3.41 \pm 20	14.33	255 \pm 36	29 \pm 9	14.5 \pm 4.3	\leq 0.1	$\frac{5}{2}^+(\frac{3}{2}^-)$
4.5 \pm 100	15.32	635 \pm 180	53 ⁺³⁴ ₋₂₆ ^d			

^a These values assume that $J \neq \frac{3}{2}$: see (1970GO04).

^b May be due to $^{10}\text{B}^*(0.7) + n$ threshold.

^c See Table 11.3.

^d Assumes that $\sigma_{\text{total}} = 4\pi d\sigma/d\Omega$ (90°).

^e Values reported in (1970GO04) are here shown multiplied by 1.7: see (1973GO09).

^f In the (e, e') work of (1975KA02) a strong group is observed at $E_x = 13.0 \pm 0.1$ MeV. If it corresponds to the excitation of $^{11}\text{B}^*(12.91)$ with $J^\pi = \frac{1}{2}^-$; $T = \frac{3}{2}$, $\Gamma_{\gamma_0} = 36 \pm 7$ eV (1975KA02).