

Table 11.3 from (1968AJ02): Energy levels of ^{11}B

E_x (MeV \pm keV)	J^π	τ_m or Γ (sec) (keV)	Decay	Reactions
g.s.	$\frac{3}{2}^-$	stable		1, 2, 7, 8, 9, 13, 14, 15, 16, 17, 18, 25, 26, 28, 29, 30, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 48, 50, 51, 52, 53, 54
2.1244 ± 0.7^a	$\frac{1}{2}^-$	0.122 ± 0.005 eV	γ	1, 7, 8, 9, 14, 15, 16, 25, 26, 29, 30, 34, 35, 36, 39, 42, 43, 45, 46, 52, 53
4.4444 ± 1.4^a	$\frac{5}{2}^-$	0.54 ± 0.05 eV	γ	1, 2, 7, 8, 9, 14, 15, 16, 25, 26, 30, 34, 36, 42, 43, 45, 46, 52, 53
5.0189 ± 1.7^a	$\frac{3}{2}^- (\frac{1}{2}^-)$	1.73 ± 0.14 eV	γ	1, 7, 8, 9, 14, 15, 16, 25, 26, 30, 34, 36, 42, 43, 45, 46, 52, 53
6.7429 ± 1.8^a	$\frac{7}{2}^-$	$\tau_m < 3 \times 10^{-13}$	γ	1, 2, 7, 14, 15, 25, 26, 34, 36, 42, 43, 45
6.7928 ± 1.8^a	$(\frac{1}{2}, \frac{3}{2})^+$	$\tau_m < 5 \times 10^{-14}$	γ	1, 7, 14, 16, 25, 26, 29, 34, 43
7.296 ± 4	$(\frac{3}{2}, \frac{5}{2})^+$	1.0 ± 0.5 eV	γ	1, 7, 14, 16, 25, 26, 30, 34, 36
7.996 ± 6	$\frac{3}{2}^+$	$\tau_m < 5 \times 10^{-14}$	γ	1, 7, 14, 16, 25, 29, 34
8.566 ± 4	$\leq \frac{5}{2}^-$	2.0 ± 0.7 eV	γ	1, 7, 14, 25, 34
8.925 ± 4	$\frac{5}{2}^-$	4.0 ± 0.6 eV	γ, α	1, 2, 14, 25, 30, 34, 36
9.185 ± 1	$\frac{7}{2}^+$	3 eV	γ, α	1, 2, 14, 25
9.274 ± 1	$\frac{5}{2}^+$	7 eV	γ, α	1, 2, 14, 25
9.87 ± 20	$\frac{3}{2}^+$	250	α	6, 14, 36
10.25 ± 35	$(\frac{3}{2}^-)$	200	α	6, 14
10.33 ± 15	$\frac{5}{2}^- (\frac{7}{2}^-)$	54 ± 17	α	6, 14, 25
10.595 ± 6	$\frac{7}{2}^+ (\frac{5}{2}^+)$	90	α	6, 14
11.0	$\frac{5}{2}^- (\frac{3}{2}^-)$	4500	α	6
11.266 ± 7	$\frac{7}{2}^+, \frac{9}{2}^+$	100	α	6, 14
11.462 ± 10		70 ± 30	α	6, 14
11.60 ± 35		150 ± 50	n, α	3, 6
11.884 ± 12	$(\frac{5}{2}^+)$	150 ± 50	n, α	3, 6, 14, 24
12.0 ± 130		≈ 1000	α	6, 14
12.565 ± 12	$(T = \frac{3}{2})$	145 ± 30	α	6, 14, 16
13.02 ± 80	$\frac{1}{2}^-; T = \frac{3}{2}$	358 ± 60		51
13.15 ± 100	$\geq \frac{11}{2}^+$	270 ± 50	n, α	3, 6, 14, 19, 20, 24, 34, 36
14.04 ± 100		500 ± 200	n, α	3, 6, 19, 20, 24

Table 11.3 from (1968AJ02): Energy levels of ^{11}B (continued)

E_x (MeV \pm keV)	J^π	τ_m or Γ (sec) (keV)	Decay	Reactions
14.563 \pm 15	$\frac{1}{2}^+$	< 120	n, α	3, 6, 14, 20, 24, 36
15.12 \pm 100		750	n, α	3, 20, 24
15.80 \pm 130		180 \pm 100	n, α	3, 6, 20
16.7 \pm 300		n, α , d, p, (t)	3, 10, 11, 24	
(16.9)		d, p, t	11, 14	
17.53 \pm 30		n, α , d, p	3, 11, 24	
18.3 \pm 800				41

^a (1966BR18).