

Table 10.5 from (1984AJ01): Energy levels of ^{10}B ^a

E_x (MeV \pm keV)	$J^\pi; T$	τ_m or $\Gamma_{c.m.}$ (keV)	Decay	Reactions
g.s.	$3^+; 0$	stable		1, 4, 5, 6, 11, 12, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 43, 44, 45, 48, 49, 50, 51, 52, 53, 55, 56, 57
0.71835 ± 0.04	$1^+; 0$	$\tau_m = 1.020 \pm 0.005$ nsec $g = +0.63 \pm 0.12$	γ	1, 4, 5, 6, 11, 12, 17, 18, 19, 20, 25, 26, 27, 29, 30, 35, 41, 43, 44, 45, 47, 48, 49, 50, 52, 55, 56, 57
1.74015 ± 0.17	$0^+; 1$	7 ± 3 fsec	γ	1, 4, 12, 17, 18, 19, 20, 23, 25, 26, 29, 41, 42, 43, 44, 45, 48, 49, 53, 56
2.1543 ± 0.5	$1^+; 0$	2.13 ± 0.20 psec	γ	1, 4, 12, 17, 18, 19, 20, 25, 26, 27, 29, 30, 35, 43, 44, 45, 47, 48, 49, 50, 52, 55, 56
3.5871 ± 0.5	$2^+; 0$	153 ± 12 fsec	γ	1, 4, 6, 12, 17, 18, 19, 25, 26, 27, 29, 30, 42, 43, 45, 48, 49, 50, 52, 55, 56
4.7740 ± 0.5	$3^+; 0$	$\Gamma = 8.7 \pm 2.2$ eV	γ, α	1, 4, 6, 17, 18, 19, 26, 27, 30, 45, 48, 49, 50, 55
5.1103 ± 0.6	$2^-; 0$	0.98 ± 0.07 keV	γ, α	1, 12, 17, 18, 26, 30, 45, 49
5.1639 ± 0.6	$2^+; 1$	$\tau_m < 6$ fsec	γ, α	1, 12, 17, 18, 23, 26, 27, 42, 45, 48
5.180 ± 10	$1^+; 0$	$\Gamma = 100 \pm 10$	γ, α	1, 3, 12, 17, 18, 27, 30, 45
5.9195 ± 0.6	$2^+; 0$	6 ± 1	γ, α	1, 3, 12, 17, 18, 19, 26, 27, 29, 30, 45, 48, 49, 50
6.0250 ± 0.6	4^+	0.05 ± 0.03	γ, α	1, 3, 17, 18, 19, 23, 25, 26, 27, 29, 30, 43, 45, 49, 50, 53, 55, 56
6.1272 ± 0.7	3^-	2.36 ± 0.03	α	3, 17, 18, 19, 26, 27, 29, 43, 45, 49, 56

Table 10.5 from (1984AJ01): Energy levels of ^{10}B ^a (continued)

E_x (MeV \pm keV)	$J^\pi; T$	τ_m or $\Gamma_{c.m.}$ (keV)	Decay	Reactions
6.561 \pm 1.9	(4) ⁻	25.1 \pm 1.1	α	3, 17, 18, 19, 26, 27, 29, 30, 43, 45, 48, 49
6.873 \pm 5	1 ⁻ ; 0 + 1	120 \pm 5	γ , p, d, α	1, 12, 14, 16, 17
7.002 \pm 6	(1, 2) ⁺ ; (0)	100 \pm 10	p, d, α	3, 16, 17, 19, 26, 27, 29, 45, 49, 55
7.430 \pm 10	2 ⁽⁻⁾ ; 0 + 1	100 \pm 10	γ , p, d, α	1, 12, 16, 23
7.467 \pm 10	1 ⁺	65 \pm 10	p	14, 45
7.479 \pm 2	2 ⁺ ; 1	74 \pm 4	γ , p	12, 14, 23, 45
7.5607 \pm 0.9	0 ⁺ ; 1	2.65 \pm 0.18	γ , p	12, 14, 17, 45
(7.67 \pm 30)	(1 ⁺ ; 0)	250 \pm 20	p, d	14, 16
7.819 \pm 20	1 ⁻	260 \pm 30	p	14, 17, 19, 45
8.07	2 ⁺	800 \pm 200	γ , p, d	16, 17, 23
(8.7)	(1 ⁺ , 2 ⁺)	(\approx 200)	p	14, 16, 55
8.889 \pm 6	3 ⁻ ; 1	84 \pm 7	γ , n, p, α	13, 14, 16, 19, 23, 48
8.895 \pm 2	2 ⁺ ; 1	40 \pm 1	γ , p, α	12, 14, 16, 19, 23, 48
(9.7)	($T = 1$)	(\approx 700)	n, p, α	13, 16
10.84 \pm 10	(2 ⁺ , 3 ⁺ , 4 ⁺)	300 \pm 100	γ , n, p	12, 13, 14, 23, 45
11.52 \pm 35		500 \pm 100	(γ)	23, 43, 45
12.56 \pm 30	(0 ⁺ , 1 ⁺ , 2 ⁺)	100 \pm 30	γ , p	12, 14, 23, 45
13.49 \pm 5	(0 ⁺ , 1 ⁺ , 2 ⁺)	300 \pm 50	γ , p	12, 23, 45
14.4 \pm 100		800 \pm 200	γ , p, α	3, 12, 43, 45
(18.2 \pm 200)		(1500 \pm 300)		45
18.43	2 ⁻ ; 1	340	γ , ^3He	6, 8
18.80	2 ⁺ , 1 ⁺	< 600	γ , ^3He , α	6, 10
19.29	2 ⁻ ; 1	190 \pm 20	γ , n, ^3He , α	6, 7, 8, 10
20.2	1 ⁻ ; 1	broad	γ , n, t, ^3He , α	6, 7, 8, 9, 10, 22
(21.1)			γ , ^3He	6
23.1		broad	γ , n	22

^a See also Tables 10.6, 10.7 and 10.11.