

Table 12.2 from (1975AJ02): Energy levels of ^{12}B

E_x in ^{12}B (MeV \pm keV)	$J^\pi; T$	τ or $\Gamma_{\text{c.m.}}$ (keV)	Decay	Reactions
g.s.	$1^+; 1$	$\tau_{1/2} = 20.41 \pm 0.06$ msec	β^-	1, 2, 3, 6, 7, 9, 10, 13, 16, 17, 19, 21, 25, 26, 27
0.95314 ± 0.60	2^+	$\tau_m = 260 \pm 40$ fsec	γ	2, 3, 7, 9, 13, 16, 19, 20, 21, 26
1.67365 ± 0.60	2^-	$\tau_m < 50$ fsec	γ	2, 3, 7, 9, 13, 16, 19
2.6208 ± 1.2	1^-	$\tau_m < 70$ fsec	γ	2, 3, 7, 9, 13, 16, 19
2.723 ± 11	0^+	$\tau_m < 140$ fsec	γ	2, 3, 7, 9, 13, 19
3.3884 ± 1.4	3^-	$\Gamma_{\text{c.m.}} = 3.1 \pm 0.6$ eV	γ, n	2, 7, 9, 10, 11, 13
3.759 ± 6	2^+	37 ± 5	γ, n	7, 9, 10, 11, 13
4.302 ± 6	1^-	9 ± 4	γ, n	7, 9, 10, 11
4.37	2^-	broad	n	11
4.521 ± 7	4^-	110 ± 20	γ, n	7, 9, 10, 11, 13
4.99 ± 15	1^+	50 ± 15	γ, n	7, 9, 10, 11
5.607 ± 7	3^+	110 ± 20	n	7, 9, 11
5.725 ± 7	3^-	60 ± 15	n	7, 9, 11
5.8	$(1)^-$	broad	n	11
6.6	$(1)^+$	140	n	7, 11
6.8	$(1)^+$	broad	n	11
7.545 ± 20	> 3	≤ 14	n	7, 11
7.836 ± 20	> 0	60 ± 30	n	7, 11, 17
7.937 ± 20	> 0	27	n	7, 11
8.1 ± 100		900 ± 200	(n)	7
8.120 ± 20			(n)	7
8.24 ± 30	> 1	65	n	7, 11
8.376 ± 20		40 ± 20	n	7, 11
8.58 ± 30	> 1	75	n	7, 11
8.707 ± 20			(n)	7
9.03 ± 20	> 1	120	n	7, 11
9.175 ± 20			(n)	7
9.43 ± 20		85 ± 30	(n)	7

Table 12.2 from (1975AJ02): Energy levels of ^{12}B (continued)

E_x in ^{12}B (MeV \pm keV)	$J^\pi; T$	τ or $\Gamma_{\text{c.m.}}$ (keV)	Decay	Reactions
9.585 \pm 20		60 \pm 30	(n)	7
9.758 \pm 20			(n)	7
(9.83)			(n)	7
10.00 \pm 40	> 0	100	n	7, 11
10.11 \pm 40				7
10.21 \pm 30		50 \pm 20		7
10.435 \pm 20		75 \pm 40		7
10.58 \pm 20	> 2	50 \pm 30	n	7, 11
10.887 \pm 20		40 \pm 20		7
(11.08)				7
11.31 \pm 30		130 \pm 60		7
11.59 \pm 20		75 \pm 25		7
12.33 \pm 30	> 2	100 \pm 30	n	7, 11
12.710 \pm 20	$0^+; 2$	(85 \pm 40)		7, 24
13.33 \pm 30		50 \pm 20		7
^a				
14.7	($2^+; 2$)	sharp		4, 24
15.5				7

^a Thirteen resonances in $^9\text{Be}(t, n)^{11}\text{B}$ with $13.6 < E_x < 14.7$ MeV [see Table 12.3].