

Table 12.2 from (1990AJ01): Energy levels of  $^{12}\text{B}$  <sup>a</sup>

$E_x$ in $^{12}\text{B}$ (MeV $\pm$ keV)	$J^\pi; T$	$\tau$ or $\Gamma_{\text{c.m.}}$ (keV)	Decay	Reactions
0	$1^+; 1$	$\tau_{1/2} = 20.20 \pm 0.02$ ms	$\beta^-$	1, 2, 5, 6, 8, 9, 12, 13, 14, 15, 16, 17, 18, 19, 20, 22, 23, 24, 25, 26, 27, 28
$0.95314 \pm 0.60$	$2^+$	$\tau_m = 260 \pm 40$ fs	$\gamma$	2, 5, 6, 8, 12, 13, 15, 18, 19, 23, 24, 25, 26, 27, 28
$1.67365 \pm 0.60$	$2^-$	$< 50$ fs	$\gamma$	2, 5, 6, 8, 12, 13, 15, 18, 19, 23, 24, 25, 26
$2.6208 \pm 1.2$	$1^-$	$< 70$ fs	$\gamma$	2, 6, 8, 12, 13, 15, 19, 24, 26
$2.723 \pm 11$	$0^+$		$\gamma$	2, 6, 8, 13, 15, 24, 27
$3.3891 \pm 1.5$	$3^-$	$\Gamma = 3.1 \pm 0.6$ eV	$\gamma, n$	2, 5, 6, 8, 9, 10, 12, 13, 15, 26
$3.759 \pm 6$	$2^+$	$40 \pm 4$ keV	$\gamma, n$	5, 6, 8, 9, 10, 12, 13, 27
$4.301 \pm 7$	$1^-$	$9 \pm 4$	$\gamma, n$	6, 8, 9, 10, 12
4.46	$2^-$	broad	n	10, 18, 23, 25, 26
$4.518 \pm 8$	$4^-$	$110 \pm 20$	$\gamma, n$	6, 8, 9, 10, 12, 13, 15, 18, 23, 25, 26
$5.00 \pm 20$	$1^+$	$50 \pm 15$	$\gamma, n$	6, 8, 9, 10, 12, 27
$5.612 \pm 8$	$3^+$	$110 \pm 40$	n	6, 8, 10, 12, 15, 23, 28
$5.726 \pm 8$	$3^-$	$50 \pm 20$	n	6, 8, 10, 15
6.0	$1^-$	broad	n	10
6.6	$1^+$	140	n	10
7.06	$1^-$	broad	n	10
$7.545 \pm 20$		$\leq 14$	n	6, 8, 10
(7.67)	$2^-$	45	n	10
$7.7 \pm 100$	$1^-$	$1900 \pm 100$	n	26
$7.836 \pm 20$	$1^-$	$60 \pm 40$	n	6, 10
$7.937 \pm 20$	( $1^-$ )	27	n	6
$8.1 \pm 100$		$900 \pm 200$	(n)	6
$8.120 \pm 20$	( $3^-$ )		n	6, 8, 10
$8.24 \pm 30$	$3^-$	65	n	6, 10

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$E_x$ in $^{12}\text{B}$ (MeV $\pm$ keV)	$J^\pi; T$	$\tau$ or $\Gamma_{\text{c.m.}}$ (keV)	Decay	Reactions
8.376 $\pm$ 20		40 $\pm$ 20		6, 8
8.58 $\pm$ 30	(3 <sup>-</sup> )	75	n	6, 8, 10
8.707 $\pm$ 20	(3 <sup>-</sup> )		n	6, 10
9.04 $\pm$ 20	1 <sup>-</sup>	95 $\pm$ 20	n	6, 8, 10
9.175 $\pm$ 20	(2 <sup>-</sup> )		n	6, 10
9.43 $\pm$ 20		85 $\pm$ 30		6, 8
9.585 $\pm$ 5	3 <sup>-</sup>	34 $\pm$ 5	n	6, 8, 10
9.758 $\pm$ 20				6
(9.83)				6
10.00 $\pm$ 40		100	n	6, 10
10.11 $\pm$ 40				6
10.220 $\pm$ 20		< 25		6, 8
10.435 $\pm$ 20		75 $\pm$ 40		6
10.59 $\pm$ 20		< 30		6, 8
10.90 $\pm$ 20		30 $\pm$ 10		6, 8
(11.08)				6
11.31 $\pm$ 30		130 $\pm$ 60		6
11.59 $\pm$ 20		75 $\pm$ 25		6
12.345 $\pm$ 25		100 $\pm$ 30	n	6, 8, 10
12.75 $\pm$ 50	0 <sup>+</sup> ; $T = 2$	85 $\pm$ 40		6, 28
13.33 $\pm$ 30		50 $\pm$ 20		6
(13.4 $\pm$ 100)		broad		8
14.82 $\pm$ 100	(2 <sup>+</sup> ; $T = 2$ )	$\leq$ 200		28
15.5				6
(21.8 $\pm$ 400)	(3 <sup>-</sup> )	(1300 $\pm$ 400)		24
(23.9 $\pm$ 1000)	(1 <sup>-</sup> )	(6000 $\pm$ 1000)		24

<sup>a</sup> See also [Table 12.5](#).