

Table 12.44 from (2017KE05): Energy levels of ^{12}N

E_x (MeV \pm keV)	$J^\pi; T$	$T_{1/2}$ or Γ (keV)	Decay	Reactions
0	$1^+; 1$	11.000 ± 0.016 ms	β^+	1, 3, 4, 7, 8, 9, 10, 11, 12, 14, 15, 16, 17, 18
0.961 ± 5	2^+	< 20 ^{a,e}	p	5, 7, 8, 11, 12, 14, 15, 16, 17
1.190 ± 7	2^-	100 ± 20	p	5, 6, 7, 11, 12, 17
1.800 ± 30	1^-	750 ± 250	p	6, 7, 11, 12
2.439 ± 8	0^+	69 ± 22	p	6, 7, 12, 17
3.132 ± 8	3^-	219 ± 20	p	6, 7, 11, 12, 17
3.558 ± 7	2^+	221 ± 30	p	6, 7, 11, 12, 17
4.142 ± 10 ^{b,c}	$2^- + 4^-$	825 ± 25	p	7, 8, 11, 12, 14, 16, 17
(4.410 ± 50)	4^-	744 ± 25	(p)	6, 11
(4.561 ± 24)	$(1, 2)^+$	517 ± 72	(p)	17
5.348 ± 15	3^-	270 ± 110 ^d	p	7, 11, 12, 14, 17
(5.60 ± 10)		120 ± 50	(p)	12
6.275 ± 21 ^b	$(1^-, 3^+)$	256 ± 88	(p)	17
6.40 ± 30 ^b	(1^-)	1200 ± 300	p	11, 12, 14
7.40 ± 50 ^b	(1^-)	1200 ± 500	p	11, 12, 14, 16, 17
7.682 ± 30 ^b		200 ± 30	(p)	7, 12
8.446 ± 17 ^b	(0^-)	90 ± 30		7, 11
(8.86 ± 100)		≈ 100		12
9.035 ± 12	(1^-)	16 ± 20		7, 11
9.800 ± 50	(0^-)	450 ± 100		12, 14
10.30 ± 50	(1^-)	450 ± 100		11, 12
11.00 ± 20		350 ± 100		12
12.196 ± 29	$0^+; 2$	< 110		5, 14
≈ 14.20				5

^a Comparison with ^{12}B suggests $\Gamma = 0.91 \pm 0.29$ keV (2007GU01).

^b Probably corresponds to unresolved states.

^c This group includes the $^{10}\text{B}(^3\text{He}, n)$ state reported at $E_x = 4250$ keV.

^d Method of Best Representation averaging technique (2014BI13).

^e In (1995LE27), an upper limit of $\Gamma_p \leq 5.5$ keV is suggested based on the product of the Wigner limit and the analog ^{12}B state spectroscopic factor. See also (2015TI03).