

Table 16.3 from (1977AJ02): Energy levels of ^{16}N

E_x (MeV \pm keV)	$J^\pi; T$	τ or $\Gamma_{\text{c.m.}}$ (keV)	Decay	Reactions
0	$2^-; 1$	$\tau_{1/2} = 7.13 \pm 0.02$ sec	β^-	1, 15, 16, 17, 18, 22, 26, 28, 29, 31, 33
0.1201 ± 0.5	0^-	$\tau_m = 7.58 \pm 0.09$ μsec	γ, β^-	1, 15, 17, 22, 28, 31, 33
0.2970 ± 0.7	3^-	^a	γ	5, 15, 16, 17, 22, 28, 29, 31, 33
0.3975 ± 0.7	1^-	$\tau_m = 6.5 \pm 0.5$ psec $ g = 1.83 \pm 0.13$	γ	5, 15, 17, 22, 28, 31, 33
3.355 ± 5	1^+	$\Gamma = 15 \pm 5$	n	3, 15, 17, 19, 22, 31
3.519 ± 5	(2^+)	3	n	3, 15, 17, 19, 22, 29, 31
3.960 ± 5	(3^+)	≤ 2	n	3, 15, 16, 17, 19, 22, 31
4.319 ± 5	1^+	20 ± 5	n	3, 15, 17, 19, 22, 31
4.387 ± 6	1^-	82 ± 20	n	3, 15, 17, 19, 22, 31
4.76 ± 50	1^-	250 ± 50	n	17, 19, 22
4.776 ± 10 (4.90 ± 10)	2^+	59 ± 8	n	15, 17, 19, 22, 31 22
5.050 ± 6	2^-	19 ± 6	n	15, 17, 19, 22, 31
5.130 ± 7	≥ 2	$\leq 7 \pm 4$	n	15, 17, 19, 22, 29, 31
5.150 ± 7	$(2, 3)^-$	$\leq 7 \pm 4$	n	15, 17, 19, 22, 29
5.232 ± 5	$(2, 3)^+$	≤ 4	n	15, 17, 19, 22, 31
5.24	1^+	260	n	19
5.25 ± 70	2^-	320 ± 80	n	17, 19, 22
5.518 ± 6	$(1, 2, 3)^+$	$\leq 7 \pm 4$	n	15, 17, 19, 22, 31
5.730 ± 6	(5^+)	$\leq 7 \pm 4$	n	15, 16, 17, 19, 22, 29, 31
6.009 ± 10	1^-	270 ± 30	n	17, 19, 31
6.168 ± 4	$(2, 3, 4)^-$	$\leq 7 \pm 4$	n	15, 17, 19, 22, 29, 31
6.373 ± 6	(3^-)	30 ± 6	n	17, 19, 22, 29, 31
6.426 ± 7		300 ± 30		17, 22
6.513 ± 6	$(0, 1, 2)^+$	34 ± 6	n	17, 19, 22, 31
6.613 ± 6		$\leq 7 \pm 4$		17, 22, 31
6.848 ± 6		$\leq 7 \pm 4$		15, 17, 22, 31
(6.84)	≥ 2	> 140	n	19

Table 16.3 from (1977AJ02): Energy levels of ^{16}N (continued)

E_x (MeV \pm keV)	$J^\pi; T$	τ or $\Gamma_{\text{c.m.}}$ (keV)	Decay	Reactions
7.02 \pm 20	≥ 1	22 \pm 5	n	17, 19, 22, 31
7.134 \pm 7		$\leq 7 \pm 4$		15, 17, 22, 31
7.250 \pm 7	≥ 2	17 \pm 5	n	17, 19, 22, 31
7.573 \pm 6	≥ 3	$\leq 7 \pm 4$	n	15, 16, 17, 19, 22, 31
7.637 \pm 5		$\leq 7 \pm 4$		15, 17, 22, 31
7.675 \pm 5		$\leq 7 \pm 4$	n	15, 17, 19, 22, 29, 31
7.877 \pm 9	≥ 4	100 \pm 15	n	17, 19, 22, 31
8.048 \pm 9		85 \pm 15	n	17, 19, 31
8.182 \pm 9		28 \pm 8		15, 17, 31
8.282 \pm 8		24 \pm 8		17, 31
8.365 \pm 8	≥ 1	18 \pm 8	n	17, 19, 31
8.49 \pm 30	≥ 1	≤ 50	n	19, 31
8.72	≥ 1	40	n	19
8.819 \pm 15		≤ 50	n	19, 31
9.035 \pm 15		≤ 50		31
9.16 \pm 30	≥ 2	100	n	19, 31
9.34 \pm 30		≤ 50	n	19, 31
9.459 \pm 15	≥ 2	100	n	19, 29, 31
9.760 \pm 10	$T = 1$	15 \pm 8		15, 31
9.813 \pm 10	$T = 1$			15, 31
9.928 \pm 7	$0^+; T = 2$	< 12		15, 30
10.055 \pm 15	≥ 3	30	n	19, 31
10.27	≥ 2	165	n	19, 31
10.71	≥ 2	120	n	19
11.49	≥ 3		n	19
11.62	≥ 3	220	n, d	9, 19
11.701 \pm 7	$1^-, 2^+; T = 2$	< 12		15
(11.92)		390	n, d	9
(12.09)			n	19
12.26		290	n, p, d	9, 10
(12.46)			n	19

Table 16.3 from (1977AJ02): Energy levels of ^{16}N (continued)

E_x (MeV \pm keV)	$J^\pi; T$	τ or $\Gamma_{\text{c.m.}}$ (keV)	Decay	Reactions
12.61		180	n, p, d	9, 10
12.88		155	n, p, d	9, 10, 19
(12.97)		175	n, d	9
13.12			n	19
13.83			n	19
14.41 ± 50	$(3)^+$	180	d	11

^a The previously reported τ_m needs, in the opinion of the reviewer, to be remeasured: see (1971AJ02) for the previously reported value.