

Table 12.22 from (90AJ01): Energy levels of  $^{12}\text{N}$

$E_x$ (MeV $\pm$ keV)	$J^\pi; T$	$\tau_{1/2}$ or $\Gamma_{c.m.}$ (keV)	Decay	Reactions
0	$1^+; 1$	$\tau_{1/2} = 11.000 \pm 0.016$ ms	$\beta^+$	1, 2, 3, 4, 5, 6, 7, 8, 9, 10
$0.960 \pm 12$	$2^+$	$\Gamma < 20$ keV		2, 4, 5, 6, 8, 10
$1.191 \pm 8$	$2^-$	$118 \pm 14$	(p)	2, 4, 5
$1.80 \pm 30$	$1^-$	$750 \pm 250$	(p)	5
$2.439 \pm 9$	$0^+$	$68 \pm 21$	(p)	2, 5, 10
$3.132 \pm 8$	$2^+, 3^-$	$220 \pm 20$	(p)	2, 5
$3.558 \pm 9$	$(1)^+$	$220 \pm 25$	(p)	2, 4, 5
$4.140 \pm 10^a$	$2^- + 4^-$	$825 \pm 25$	(p)	2, 4, 5, 8
$5.348 \pm 13$	$3^-$	$180 \pm 23$	(p)	2, 4, 5
$(5.60 \pm 11)$		$120 \pm 50$	(p)	5
$6.40 \pm 30^a$	$(1^-)$	$1200 \pm 30$	(p)	5
$7.40 \pm 50^a$	$(1^-)$	$1200 \pm 30$	(p)	5, 8
$7.684 \pm 21^a$		$200 \pm 32$	(p)	2, 4, 5
$8.446 \pm 17^a$		$90 \pm 30$		2
$9.035 \pm 12$		$< 35$		2
$(9.42 \pm 100)$		$\approx 200$		5
$9.80 \pm 20$		$450 \pm 100$		5
$10.30 \pm 20$		$450 \pm 100$		5
$11.00 \pm 20$		$350 \pm 100$		5

<sup>a</sup> Probably corresponds to unresolved states. See Table 12.23 and reactions 5 and 8.