

Table 18.36 from (1995TI07): Energy levels of ^{18}Ne ^a

E_x (MeV \pm keV)	$J^\pi; T$	τ or $\Gamma_{\text{c.m.}}$	Decay	Reactions
0	$0^+; 1$	$\tau_{1/2} = 1672 \pm 8$ ms	β^+	1, 5, 9, 10
1.8873 ± 0.2	2^+	$\tau_m = 0.67 \pm 0.06$ ps	γ	5, 9, 10
3.3762 ± 0.4	4^+	$\tau_m = 4.4 \pm 0.6$ ps	γ	5, 7, 8, 10
3.5763 ± 2.0	0^+	$\tau_m = 4 \pm 2$ ps	γ	5, 10
3.6164 ± 0.6	2^+	$\tau_m = 63_{-20}^{+30}$ fs	γ	5, 10
4.519 ± 8	1^-	$\Gamma \leq 20$ keV	(p)	5, 10
4.561 ± 9	3^+			5
4.590 ± 8	0^+	$\Gamma \leq 20$ keV	(p)	5, 10
5.090 ± 8	$(2^+, 3^-)$	$\Gamma = 40 \pm 20$ keV	(p)	5, 10
5.146 ± 7	$(2^+, 3^-)$	$\Gamma = 25 \pm 15$ keV		5, 10
5.453 ± 10		$\Gamma \leq 50$ keV		10
6.15 ^{b, c}	(1^-)			2, 3
6.297 ± 10	(4^+)	$\Gamma \leq 60$ keV		5, 10
6.353 ± 10		$\Gamma \leq 60$ keV		10
7.059 ± 10	$(1^-, 2^+)$	$\Gamma = 180 \pm 50$ keV		5
7.35 ^c				2
7.713 ± 10		$\Gamma \leq 50$ keV		5, 10
7.910 ± 10	$(1^-, 2^+)$	$\Gamma \leq 50$ keV		5
7.950 ± 10		$\Gamma \leq 60$ keV		10
8.086 ± 10		$\Gamma \leq 50$ keV		5
8.500 ± 30		$\Gamma \leq 120$ keV		5
9.201 ± 9		$\Gamma \leq 50$ keV		10

^a See also [Table 18.37](#).

^b (1990GAZW).

^c (1992HAZZ). This work reports the observation of several new levels in the region $E_x > 6$ MeV.