

Table 18.38 from (1995TI07):
States in ^{18}Ne from $^{16}\text{O}(^3\text{He}, n)$ and $^{20}\text{Ne}(p, t)$ ^a

E_x (MeV \pm keV)		$\Gamma_{\text{c.m.}}$ ^b (keV)	$J\pi$ ^{a, b}
A	B		
0			0^+
1.8873 ± 0.2	1.886 ± 10		2^+
3.3762 ± 0.4	3.375 ± 10		4^+
3.5763 ± 2.0	3.580 ± 10		0^+
3.6164 ± 0.6	3.612 ± 10		2^+
4.513 ± 13	4.522 ± 10	≤ 20	1^-
4.561 ± 9 ^c		25 ^c	3^+ ^c
4.587 ± 13	4.592 ± 10	≤ 20	0^+
5.075 ± 13	5.099 ± 10	40 ± 20	$(2^+, 3^-)$
5.141 ± 10	5.151 ± 10	25 ± 15	$(2^+, 3^-)$
	5.453 ± 10	≤ 50	
6.291 ± 30 ^d	6.297 ± 10	≤ 60	(4^+)
	6.353 ± 10	≤ 60	
7.062 ± 12 ^a		180 ± 50	$(1^-, 2^+)$
7.712 ± 20	7.713 ± 10	≤ 50	
7.915 ± 12 ^a		≤ 50	$(1^-, 2^+)$
	7.949 ± 10	≤ 60	
8.100 ± 14 ^a		≤ 50	
8.50 ± 30		≤ 120	
	9.198 ± 10	≤ 50	

A: $^{16}\text{O}(^3\text{He}, n)^{18}\text{Ne}$: for references see [Table 18.23 in \(1978AJ03\)](#) and [\(1981NE09\)](#).

B: $^{20}\text{Ne}(p, t)^{18}\text{Ne}$: [\(1981NE09\)](#).

^a See also [Table 18.23 in \(1978AJ03\)](#).

^b [\(1981NE09\)](#).

^c [\(1991GA03\)](#). The width $\Gamma = 25$ keV is estimated from a Woods Saxon calculation.

^d $\Gamma = 180 \pm 60$ keV.