

Table 19.27 from (1978AJ03): ^{19}Ne levels from $^{20}\text{Ne}(^3\text{He}, \alpha)^{19}\text{Ne}$ ^a

E_x (MeV \pm keV)		l_n ^c	J^π ^d	C^2S ^e
(1970GA18)	(1972HA03) ^b			
0		0	$\frac{1}{2}^+$	0.12
0.238 ± 10	0.2397 ± 2 ^{g,h}	2	$\frac{5}{2}^+$	1.04
0.273 ± 10	0.2766 ± 2 ^{g,h}	1	$\frac{1}{2}^-$	1.96
	1.5040 ± 3 ^g		$(\frac{5}{2}^-)$	
1.524 ± 20				
	1.5324 ± 3 ^g	2	$(\frac{3}{2})^+$	0.73
1.615 ± 10	1.6115 ± 3 ^g	1	$(\frac{3}{2})^-$	0.21
2.793 ± 10	2.7917 ± 3	4, 5 ^j	$(\frac{9}{2}^+)$ ^j	
4.036 ± 10		2	$(\frac{3}{2}, \frac{5}{2})^+$	
4.142 ± 10 ^f				
4.200 ± 10				
4.379 ± 10				
4.551 ± 10		1	$(\frac{1}{2}, \frac{3}{2})^-$	
4.625 ± 10				
4.712 ± 10				
4.783 ± 20				
5.093 ± 10	5.086 ± 10			
5.351 ± 10		0	$\frac{1}{2}^+$	0.01
5.426 ± 10	5.423 ± 10			
5.463 ± 20				
5.545 ± 10	5.517 ± 20			
5.831 ± 10	5.837 ± 20			
6.012 ± 10	6.014 ± 10	1	$(\frac{3}{2}, \frac{1}{2})^-$	(3.62)
6.089 ± 10	6.104 ± 15			
6.149 ± 20				
6.290 ± 10	6.289 ± 10			
6.433 ± 20	6.438 ± 10			
6.774 ± 10	6.741 ± 10	1	$(\frac{3}{2}, \frac{1}{2})^-$	
6.866 ± 10	6.858 ± 10			
7.064 ± 20	7.068 ± 10			
	(7.178 ± 15)			
	7.253 ± 10			

Table 19.27 from (1978AJ03): ^{19}Ne levels from $^{20}\text{Ne}(^3\text{He}, \alpha)^{19}\text{Ne}$ ^a (continued)

E_x (MeV \pm keV)		l_n ^c	J^π ^d	C^2S ^e
(1970GA18)	(1972HA03) ^b			
	(7.326 \pm 15)			
	(7.531 \pm 15)			
	7.614 \pm 20			
	7.700 \pm 10			
	(7.788 \pm 10)			
	7.994 \pm 15			
	8.063 \pm 15			
	8.236 \pm 10 ⁱ			
	8.440 \pm 10			
	8.523 \pm 10			
	(8.810 \pm 25)			
	8.915 \pm 10			
	9.013 \pm 10			
	9.100 \pm 20			
	9.240 \pm 20			
	9.489 \pm 25			
	9.886 \pm 50 ⁱ			
	10.407 \pm 30 ⁱ			
	10.613 \pm 20			

^a See also [Table 19.25 in \(1972AJ02\)](#).

^b See also [\(1971HA2F\)](#).

^c [\(1970GA18\)](#).

^d [\(1967OL05, 1970GA18\)](#).

^e [\(1970GA18, 1972EN03\)](#).

^f 4.152 \pm 15 [\(1967GR04\)](#), 4.160 \pm 20 [\(1967OL05\)](#).

^g The energy separations within each multiplet are fixed at the values determined by [\(1970GI09\)](#).

^h 238.4 and 274.8 \pm 0.3 keV [\(1967OL05\)](#), 238.34 \pm 0.15 and 275.30 \pm 0.2 keV [\(1970BH02\)](#).

ⁱ Unresolved states.

^j [\(1969BA62\)](#).