

Table 18.25 from (1972AJ02): Excitation energies from  $^{16}\text{O}(^3\text{He}, n)^{18}\text{Ne}$

$E_x$ (MeV $\pm$ keV)					$\Gamma$ (keV) <sup>d</sup>	$J^\pi$ <sup>d</sup>
(1961TO03)	(1968GI09, 1969RO08)	(1970AD02)	(1970NE1J, 1970NE1N) <sup>d</sup>	(1970SH04)	c.m.	
0	0	0		0		
$1.880 \pm 10$	$1.8873 \pm 0.2$	a		$1.890 \pm 2$		
$3.362 \pm 11$	$3.3762 \pm 0.4$	$3.375 \pm 15$		$3.383 \pm 4$		
	$3.5763 \pm 2.0$	$3.564 \pm 20$				
$3.608 \pm 12$	$3.6164 \pm 0.6$	$3.610 \pm 15$		$3.623 \pm 3$		
		$4.505 \pm 15$ <sup>b</sup>	$4.513 \pm 13$			
		$4.571 \pm 15$ <sup>b</sup>	$4.587 \pm 13$ <sup>e</sup>			$0^+(1^-)$
			$5.075 \pm 13$ <sup>f</sup>		$\leq 60$	
		$5.14 \pm 20$ <sup>c</sup>	$5.135 \pm 12$ <sup>f</sup>		$\leq 60$	
			$6.291 \pm 30$		$180 \pm 60$	
			$7.062 \pm 12$		$180 \pm 50$	$(2^+, 1^-)$
			$7.712 \pm 20$		$\leq 50$	
			$7.915 \pm 12$		$\leq 50$	$(2^+, 1^-)$
			$8.100 \pm 14$		$\leq 50$	
			$8.50 \pm 30$		$\leq 120$	

<sup>a</sup> Observed but energy not determined.

<sup>b</sup>  $\Gamma \leq 40$  keV.

<sup>c</sup> No other narrow states observed with  $E_x < 7.5$  MeV (1970AD02).

<sup>d</sup> A. Nero, private communication.

<sup>e</sup> (1968TO09) report  $E_x = 4.59 \pm 0.03$  MeV,  $\Gamma \leq 130$  keV; the 4.51 MeV state was not resolved.

<sup>f</sup> One of these two states has  $J^\pi = 3^-$ .