

Table 20.8 from (1978AJ03):  
States in  $^{20}\text{F}$  from  $^{18}\text{O}(^3\text{He}, p)^{20}\text{F}$

$E_x$ (keV)		$L^b$	$J^\pi^b$
(1970RO06)	(1974CR04)		
0	0	2	$2_1^+$
$657.2 \pm 1.3$	656	2 + 4	$3_1^+$ <sup>d</sup>
$823.5 \pm 1.5$	$822.6 \pm 1.9$	4	$4_1^+$ <sup>d</sup>
$982.9 \pm 1.3$	$983.3 \pm 5.3$	c	$1^-$ <sup>e</sup>
$1058.1 \pm 1.4$	$1057.5 \pm 2.4$	0 + 2	$1_1^+$
$1309.1 \pm 1.4$	$1310.2 \pm 3.1$	c	$2^-$ <sup>e</sup>
$1824.4 \pm 1.6^a$	$1824.1 \pm 3.6$	4	$5_1^+$ <sup>d</sup>
$1843.0 \pm 1.7^a$			$(2^-)$ <sup>e</sup>
$1971.9 \pm 1.6$	$1978.0 \pm 2.8$	c	$(3^-)$ <sup>g</sup>
$2044.0 \pm 1.6$	$2044.9 \pm 2.2$	2	$2_2^+$
$2195.5 \pm 2.0$	$2194.7 \pm 2.8$		$(3^+)$ <sup>g</sup>
$2868.2 \pm 2.3$	$2863.6 \pm 3.9$	c	
$2967.1 \pm 2.0$	$2961.4 \pm 3.5$		see <sup>b</sup>
	$3167.2 \pm 3.8^i$	$(0 + 2)^h$	$(1^+)^h$
$3487.8 \pm 2.2$	$3485.9 \pm 2.3$	0 + 2	$1_2^+$
	3.53 <sup>j</sup>	c	$(0^+)^j$
$3586.3 \pm 2.2$	$3583.1 \pm 2.7$		see <sup>b</sup>
$3681.0 \pm 2.5$	$3669.4 \pm 4.9$		see <sup>b</sup>
$3761.0 \pm 3.1^f$	$3760 \pm 10$	c	
$3966.9 \pm 2.8$		0 + 2 <sup>h</sup>	$1^+^h$
$4083.7 \pm 2.9$			
$6519 \pm 3^k$			$0^+; T = 2^k$

<sup>a</sup> (1967QU01) find  $E_x = 1824.4 \pm 2.1$  and  $1843.0 \pm 2.2$  keV.

<sup>b</sup>  $E(^3\text{He}) = 18$  MeV (1974CR04): predominant  $L$ -values.

<sup>c</sup> Weakly populated.

<sup>d</sup> Also (1973LO13, 1973PR01).

<sup>e</sup> (1973LO13).

<sup>f</sup>  $E_x = 3765 \pm 6$  keV, based on  $E_x = 657 \pm 1$  keV (1973PR01).

<sup>g</sup> Suggested by (1973PR01).

<sup>h</sup> (1976ME14):  $E(^3\text{He}) = 19$  MeV.

<sup>i</sup>  $E_x = 3175 \pm 6$  keV (1972AL26), based on  $E_x = 983 \pm 1$  keV.

<sup>j</sup> See (1971FO14).

<sup>k</sup> (1976MI01).