

Table 19.14 from (1978AJ03):  
States of  $^{19}\text{F}$  from  $^{16}\text{O}(^7\text{Li}, \alpha)^{19}\text{F}$  <sup>a</sup>

$E_x$ <sup>b</sup> (MeV $\pm$ keV)	$(d\sigma/d\Omega)_{\text{max}}$ (mb/sr)	$E_x$ <sup>b</sup> (MeV $\pm$ keV)	$(d\sigma/d\Omega)_{\text{max}}$ (mb/sr)
0	0.34	5.50	0.96
0.11	0.05	6.08	1.5
0.20	1 – 2	6.48	} 0.21
1.35	0.15	6.50	
1.46	0.08	6.53	1.07
1.56	0.87	$6.89 \pm 20$	4.2
2.78	1.3	$7.21 \pm 20$	0.37
3.91	0.07	$7.70 \pm 20$	2.7
4.00	} 0.48	$7.94 \pm 20$	0.26
4.03		$8.53 \pm 20$	3.1
4.38	0.12	$8.89 \pm 20$	2.8
4.55	} 0.30	$9.53 \pm 20$	4.7
4.56		$9.81 \pm 20$	3.8
4.65	3.7	$10.32 \pm 20$	1.4
5.11	0.36	$10.44 \pm 20$	2.8
5.34	0.22	<sup>c</sup>	
5.47	1.3		

<sup>a</sup> (1974TS03):  $E(^7\text{Li}) = 35$  MeV.

<sup>b</sup> Nominal energies except for the latest ten values.

<sup>c</sup> At  $E(^7\text{Li}) = 30$  MeV the excitation of  $^{19}\text{F}^*(7.25, 10.2, 12.1, 13.4)$  and of  $^{19}\text{F}^*(12.90 \pm 0.05, 13.46 \pm 0.05, 13.94 \pm 0.05, 14.30 \pm 0.05)$  are reported by (1969GL06) and by (1972BA1P, 1973WE11), respectively.