Table 19.13 from (1978AJ03):
Levels of ^{19}F and ^{19}Ne from ^{16}O(^{6}Li, ^{3}He) and ^{16}O(^{6}Li, t) [a]

J^{π} [c]	E_x [b] in ^{19}F (MeV)			E_x [b] in ^{19}Ne (MeV)		
	$K^{\pi} = \frac{1}{2}^{+}$	$K^{\pi} = \frac{1}{2}^{-}$	other	$K^{\pi} = \frac{1}{2}^{+}$	$K^{\pi} = \frac{1}{2}^{-}$	other
$\frac{1}{2}^{+}$	0			0		
$\frac{3}{2}^{+}$	1.56			1.54 [e]		
$\frac{5}{2}^{+}$	0.20			0.24		
$\frac{7}{2}^{+}$	5.47			5.42		
$\frac{9}{2}^{+}$	2.78			2.79 [e]		
$\frac{11}{2}^{+}$	(6.50) [d]					
$\frac{13}{2}^{+}$	4.65			4.64		
$\frac{1}{2}^{-}$		0.11			0.28	
$\frac{3}{2}^{-}$		1.46			1.62 [e]	
$\frac{5}{2}^{-}$		1.35			1.51 [e]	
$\frac{7}{2}^{-}$		4.00			4.20 [g]	
$\frac{9}{2}^{-}$		4.03			4.14 [g]	
$\frac{3}{2}^{+}$			3.91 [e]			4.03 [e]
$\frac{7}{2}^{+}$			4.38			4.38 [e]
$\frac{5}{2}^{(+)}$			4.55			4.55 [e]
$\frac{3}{2}^{-}$ $(\frac{1}{2}^{-})$			4.56			4.593 ± 0.006
$\frac{5}{2}^{-}$			4.68			4.71
$\frac{5}{2}^{(-)}$			5.11			5.09 [f]
$\frac{5}{2}^{+}$			5.34			
$\frac{7}{2}^{-}$			5.43			
						(6.12)
$(\frac{5}{2}, \frac{7}{2})^{-}$						6.29
$(\frac{11}{2}, \frac{9}{2})^{-}$						6.86

[a] (1971BI06, 1972BI14, 1972GA08, 1973BI02). See also reaction 14 in ^{19}Ne.

[b] Energies are nominal.

[c] J^{π} assignments based on similarities in angular distributions, and on known spin of one of the analog states.

[d] Not strongly populated at $E(^{6}\mathrm{Li}) = 24$ MeV.

[e] J^{π} assignments based on similarities in $\sigma_{\max}$ in both reactions, and on known spin of anaolg state.

[f] $J^{\pi} = (\frac{5}{2}^{-}, \frac{7}{2}^{-})$ (1973BI02); a state at 4.78 MeV is also reported (1973BI02).

[g] See, however, reaction 5 in ^{19}Ne (1973DA31).