Table 20.7 from (1978AJ03): States of ^{20}F from ^{14}N(^{7}Li, p)^{20}F [a]

E_x [b] (MeV)	J^π	σ_t (μb)	E_x (MeV)	J^π	σ_t (μb)
0	2^+	23.8	2.86	2^-, 3, 4^+ [d]	40.7
0.66	3^+	37.4	2.97	4^-, 5, 6^+, 7^+ [d]	68.2
0.82	4^+	48.2	3.50 [c]	$1^+ + 0^+$	19.6
0.98	1^-	20.2	3.59	2^-, 3, 4, 5^+ [d]	47.6
1.06	1^+	15.0	3.68	3^-, 4, 5, 6^+ [d]	58.6
1.31	2^-	33.8	$4.20 + 4.21$	[e]	130
1.83 [c]	$5^+ + 2^-$	85.7	4.52	3^-, 4^-, 5, 6^+, 7^+ [d]	63.8
1.97	(3^-)	48.9	$4.58 + 4.59$		80
2.04	2^+	24.5	4.76	3^-, 4^-, 5, 6^+ [d]	61.4
2.19	3^+	35.4	$4.89 + 4.90$		54

[a] (1975BI04): $E(^7\text{Li}) = 16$ MeV.

[b] Nominal energy.

[c] Unresolved.

[d] Based on σ_t measurements: see text.

[e] One of these two states has $J^\pi \geq 4^-$ or 5^+.