Table 20.32 from (1983AJ01): States of ^{20}Ne from ^{19}F(^{3}He, d)^{20}Ne [a]

E_x (MeV ± keV)	Γ (keV)	nlj [b]	$J^\pi; T$	K^π	$(2J+1)C^2S$	
					$DWBA$	$CCBA$ [c]
0		$2s_{1/2}$	0^+	0_1^+		0.37
1.6353 ± 1.8		$1d_{5/2}$	2^+	0_1^+		1.7
4.249 ± 2.5		n.s.	4^+	0_1^+		0.08
4.968 ± 3		$1p_{3/2}$	2^-	2^-	(0.03)	0.03
5.623 ± 3		$1f_{7/2}$	3^-	2^-	(0.09)	0.06
5.785 ± 3		$2p_{3/2}$	1^-	0^-	0.16	0.11
6.722 ± 3		$2s_{1/2}$	0^+	0_2^+	0.52	0.30
7.00		$1f_{7/2}$	4^-	2^-		0.12
7.156 ± 8		$1f_{7/2}$	3^-	0^-	0.42	0.12
7.422 ± 3		$1d_{5/2}$	2^+	0_2^+	0.79	0.50
7.829 ± 10		$1d_{5/2}$	2^+	0_3^+	0.06	0.046
≈ 8.3	≈ 800	$2s_{1/2}$	0^+	0_4^+	0.13	
8.45		n.s.	5^-	2^-		
8.70		n.s.	1^-			
8.769 ± 10		n.s.	6^+	0_1^+		
8.8	broad	$1d_{5/2}$	2^+		0.21	
8.841 ± 10		$2p_{3/2}$	1^-		(0.01)	
9.03		n.s.	4^+	0_3^+		
9.12		n.s.	3^-			
9.305 ± 10		$1d_{5/2}$	$(1, 2, 3)^+$		0.04	
9.469 ± 10		$1d_{5/2}$	2^+		0.03	
9.859 ± 3		$1d_{5/2}$	3^+ [e]		2.37	
9.92		n.s.	(1^+)			
9.99		n.s.	4^+	0_2^+		
10.257 ± 15		$1d_{5/2}$	$2^+; 1$		0.07	
10.40						
10.55						
10.568 ± 15	27	$1d_{5/2}$	2^+		0.05	
10.815 ± 15	12	$1d_{5/2}$	2^+		0.05	
10.860 ± 15		$1d_{5/2}$	$3^+; 1$ [e]		2.82	

Table 20.32 from (1983AJ01): States of ^{20}Ne from ^{19}F(^{3}He, d)^{20}Ne [a] (continued)

E_x (MeV $\pm$ keV)	Γ (keV)	nlj [b]	$J^\pi; T$	K^π	$(2J+1)C^2S$	
					$DWBA$	$CCBA$ [c]
10.951 ± 15						
11.067 ± 15		n.s.	$(4^+; 1)$			
11.239 ± 15					see [a]	
11.27 ± 15	73	n.s.				
11.549 ± 15		$1d_{5/2}$	3^+ [e]		1.00	
11.83 ± 15	81	$1d_{5/2}$			0.10	
11.992 ± 15		n.s.	(8^+)	0_1^+		
12.082 ± 15		$1d_{5/2}$			0.35	
12.190 ± 15	< 0.1	$1d_{5/2}$	(1, 2, 3) [e]		2.10	
12.367 ± 15 [d]	< 200		3^- [e]		see [a,e]	
12.423 ± 15	160	$1d_{5/2}$	(2^+)		0.19	
12.503 ± 15		$1d_{5/2}$			0.02	
12.823 ± 15		$2s_{1/2}$			0.15	
13.037 ± 15		$1d_{5/2}$				
13.135 ± 15						
13.270 ± 15						

n.s. = not stripping.

[a] For complete references see Table 20.35 in (1978AJ03).

[b] Orbital for direct transfer.

[c] Average of values displayed in Table 20.35 (1978AJ03).

[d] α-decays to ^{16}O*(6.13) (1977MA07).

[e] Gamma-ray measurements (1977MA07): $E_x = 9.88 \pm 0.03$, 10.89 ± 0.03, 11.59 ± 0.03, 12.22, 12.40 ± 0.04 MeV. The E_x measured by (1975BE02) appear to be systematically low by $14 - 30$ keV: see (1977MA07).