

Table 18.17 from (1987AJ02): Maxima in the yields of $^{16}\text{O} + \text{d}$ ^a

E_d (MeV \pm keV)	Particles out	$\Gamma_{\text{c.m.}}$ (keV)	$J^\pi; T$	E_x (MeV)
0.895	p_1, α_0	210 ± 25		(8.320)
1.048	p_1, d_0, α_0	88 ± 10	1^+	8.456
1.199	α_0	230 ± 30		(8.590)
1.298	p_1, d_0, α_0	13 ± 3		(8.678)
1.325	d_0, α_0			(8.702)
1.482	α_0	40 ± 5		(8.842)
1.563	d_0, α_0	121 ± 15		(8.914)
1.616	α_0	19 ± 15		(8.961)
1.765	d_0, α_0	141 ± 10		(9.093)
1.885	p_0, p_1, d_0, α_0	108 ± 12	$3, 4^-; 0$	9.200
2.22	n_0, α_0		$2, 3^+; 0$	9.50
2.28	α_0		$2, 3^+; 0$	(9.55)
2.34	n_0, p_1			(9.60)
2.55	p_1			(9.79)
2.92	n, p_0, p_1			10.12
3.05	α_0		$3, 4^-; 0$	10.24
3.13	$n, p_1, \alpha_0, \alpha_1$		$\geq 2; 0$	10.31
3.37	n_0, p_0, p_1, α_1			10.52
3.47	α_0		$4, 5^+; 0$	10.61
3.68	n, p_0, p_1, α_1		2^+	10.79
3.80	p_0, α_0		$\geq 2^+; 0$	10.90
3.94	n, p_1, α_1			11.03
3.95	p_1, α_0	≈ 35	$3, 4^-; 0$	11.03
4.07	n, p_1			11.14
4.38	p_1, α_0		$4, 5^+; 0$	11.42
4.57	α_0		$5, 6^-; 0$	11.58
4.80	d_0, α_0		$\geq 3; 0$	11.79
4.93	α_0		$5, 6^-; 0$	11.90
5.05 ± 15	α_4	40		12.01
5.11	$\alpha_0, \alpha_2, \alpha_4$	60	$4, 5^+; 0$	12.06
5.17	α_0	55	$T = 0$	12.12

Table 18.17 from (1987AJ02): Maxima in the yields of $^{16}\text{O}+\text{d}$ ^a (continued)

E_d (MeV \pm keV)	Particles out	$\Gamma_{\text{c.m.}}$ (keV)	$J^\pi; T$	E_x (MeV)
5.32	α_0	70		12.25
5.34	α_0, α_2	170		12.27
5.40	α_0, α_4	130		12.32
5.47	α_4	80		12.38
5.49	$\alpha_2, \alpha_3, \alpha_4$	120		12.40
5.59	α_0, α_2	120		12.49
5.65	α_0, α_2	140		12.54
5.77	α_0	180	2^+	12.65
5.80	$\alpha_0, \alpha_2, \alpha_4$	160		12.68
5.81	α_3, α_4	80	5^-	12.69
5.91	α_2	160		12.77
6.00	α_0	120		12.85
6.11	α_0, α_4	120		12.95
6.19	α_2, α_3	200	$\geq 4; 0$	13.02
6.25	α_0, α_4	150	$T = 0$	13.08
6.30	α_0, α_2	160		13.12
6.34	α_0, α_3	160	$5, 6^-; 0$	13.16
6.38	α_0, α_3	145	$T = 0$	13.19
6.43	α_0, α_2	120		13.24
6.46	α_0, α_4	100		13.26
6.54	α_0, α_2	135		13.33
6.61	$\alpha_2, \alpha_3, \alpha_4$	120		13.40
6.64	α_0, α_2	200		13.42
6.66	α_0	100		13.44
6.72	α_2	100		13.79
6.73	α_2	100		13.50
6.80	α_2, α_3	140		13.56
6.84	$\alpha_0, \alpha_2, \alpha_4$	150		13.60
6.94	α_0, α_3	90		13.69
7.10	α_3, α_4	60	$4^-, 5^+$	13.83
7.27	α_3	150		13.98

Table 18.17 from (1987AJ02): Maxima in the yields of $^{16}\text{O}+\text{d}$ ^a (continued)

E_d (MeV \pm keV)	Particles out	$\Gamma_{\text{c.m.}}$ (keV)	$J^\pi; T$	E_x (MeV)
7.31	α_2	60	$4^-, 5^+$	14.18
7.34	$\alpha_0, \alpha_3, \alpha_4$	200		14.04
7.38	α_0, α_3	210		14.08
7.41	α_3	60	$4^-, 5^+$	14.02
7.49	α_0	220		14.18
7.58	α_0	200	$\geq 4; 0$	14.26
7.62	α_4	85		14.29
7.66	$\alpha_0, \alpha_2, \alpha_4$	130	$T = 0$	14.33
7.67	$\alpha_0, \alpha_2, \alpha_3, \alpha_4$	250	$T = 0$	14.34
7.74	α_3	200	$3^+, 4^-$	14.40
7.80	α_0, α_4	70		14.45
7.82	α_0, α_2	225		14.47
7.99	α_4	200		14.62
8.02	α_0	150		14.65
8.03	α_3	310		14.66
8.07	α_0	120		14.69
8.08	α_3, α_4	310		14.70
8.21	α_2	250		14.82
8.25	α_4	380		14.85
8.30	$\alpha_0, \alpha_2, \alpha_3$	210		14.90
8.34	α_4	115		14.93
8.37	α_0	130		14.96
8.37	α_0, α_3	250		14.96
8.40	α_0	310		14.99
8.43	α_4	120		15.01
8.52	α_3, α_4	160	$4^-, 5^+$	15.09
8.52	α_2	150		15.09
8.56	α_2	220		15.13
8.58	α_4	180		15.15
8.61	α_0, α_3	200		15.17
8.65	α_0, α_2	135		15.21

Table 18.17 from (1987AJ02): Maxima in the yields of $^{16}\text{O}+d$ ^a (continued)

E_d (MeV \pm keV)	Particles out	$\Gamma_{\text{c.m.}}$ (keV)	$J^\pi; T$	E_x (MeV)
8.72	α_2, α_4	120		15.27
8.76	α_2	160		15.30
8.79	α_0	200		15.33
8.80	$\alpha_0, \alpha_3, \alpha_4$	200	$5^+, 6^-$	15.34
8.89	α_3	110		15.42
8.93	α_3, α_4	190		15.46
8.97	α_2, α_4	210		15.49
9.00	α_0, α_2	190		15.52
9.62	α_3	220	$4^-, 5^+$	16.07
10.35	α_3	60	$4^-, 5^+$	16.72
11.15	α_3	70	$4^-, 5^+, 6^-$	17.43

^a For references see [Table 18.15 in \(1978AJ03\)](#). This table does not include the structures in α_1 leading to mixed isospin states in ^{18}F ; for the latter see [Table 18.16 in \(1978AJ03\)](#).