

Table 18.15 from (1983AJ01): Maxima in the yields of  $^{16}\text{O} + \text{d}$  <sup>a</sup>

$E_d$ (MeV $\pm$ keV)	Particles out	$\Gamma_{\text{c.m.}}$ (keV)	$J^\pi; T$	$E_x$ (MeV)
0.895	$p_1, \alpha_0$	$210 \pm 25$		(8.321)
1.048	$p_1, d_0, \alpha_0$	$88 \pm 10$	$1^+$	8.457
1.199	$\alpha_0$	$230 \pm 30$		(8.591)
1.298	$p_1, d_0, \alpha_0$	$13 \pm 3$		(8.679)
1.325	$d_0, \alpha_0$			(8.703)
1.482	$\alpha_0$	$40 \pm 5$		(8.843)
1.563	$d_0, \alpha_0$	$121 \pm 15$		(8.914)
1.616	$\alpha_0$	$19 \pm 15$		(8.962)
1.765	$d_0, \alpha_0$	$141 \pm 10$		(9.094)
1.885	$p_0, p_1, d_0, \alpha_0$	$108 \pm 12$	$3, 4^-; 0$	9.20
2.22	$n_0, \alpha_0$		$2, 3^+; 0$	9.50
2.28	$\alpha_0$		$2, 3^+; 0$	(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	$\alpha_0$		$3, 4^-; 0$	10.24
3.13	$n, p_1, \alpha_0, \alpha_1$		$\geq 2; 0$	10.31
3.37	$n_0, p_0, p_1, \alpha_1$			10.52
3.47	$\alpha_0$		$4, 5^+; 0$	10.61
3.68	$n, p_0, p_1, \alpha_1$		$2^+$	10.79
3.80	$p_0, \alpha_0$		$\geq 2^+; 0$	10.90
3.94	$n, p_1, \alpha_1$			11.03
3.95	$p_1, \alpha_0$	$\approx 35$	$3, 4^-; 0$	11.03
4.07	$n, p_1$			11.14
4.38	$p_1, \alpha_0$		$4, 5^+; 0$	11.42
4.57	$\alpha_0$		$5, 6^-; 0$	11.58
4.80	$d_0, \alpha_0$		$\geq 3; 0$	11.79
4.93	$\alpha_0$		$5, 6^-; 0$	11.90
$5.05 \pm 15$	$\alpha_4$	40		12.01
5.11	$\alpha_0, \alpha_2, \alpha_4$	60	$4, 5^+; 0$	12.06
5.17	$\alpha_0$	55	$T = 0$	12.12

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$E_d$ (MeV $\pm$ keV)	Particles out	$\Gamma_{\text{c.m.}}$ (keV)	$J^\pi; T$	$E_x$ (MeV)
5.32	$\alpha_0$	70		12.25
5.34	$\alpha_0, \alpha_2$	170		12.27
5.40	$\alpha_0, \alpha_4$	130		12.32
5.47	$\alpha_4$	80		12.38
5.49	$\alpha_2, \alpha_3, \alpha_4$	120		12.40
5.59	$\alpha_0, \alpha_2$	120		12.49
5.65	$\alpha_0, \alpha_2$	140		12.54
5.77	$\alpha_0$	180	$2^+$	12.65
5.80	$\alpha_0, \alpha_2, \alpha_4$	160		12.68
5.81	$\alpha_3, \alpha_4$	80	$5^-$	12.69
5.91	$\alpha_2$	160		12.77
6.00	$\alpha_0$	120		12.85
6.11	$\alpha_0, \alpha_4$	120		12.95
6.19	$\alpha_2, \alpha_3$	200	$\geq 4; 0$	13.02
6.25	$\alpha_0, \alpha_4$	150	$T = 0$	13.08
6.30	$\alpha_0, \alpha_2$	160		13.12
6.34	$\alpha_0, \alpha_3$	160	$5, 6^-; 0$	13.16
6.38	$\alpha_0, \alpha_3$	145	$T = 0$	13.19
6.43	$\alpha_0, \alpha_2$	120		13.24
6.46	$\alpha_0, \alpha_4$	100		13.26
6.54	$\alpha_0, \alpha_2$	135		13.33
6.61	$\alpha_2, \alpha_3, \alpha_4$	120		13.40
6.64	$\alpha_0, \alpha_2$	200		13.42
6.66	$\alpha_0$	100		13.44
6.72	$\alpha_2$	100		13.49
6.73	$\alpha_2$	100		13.50
6.80	$\alpha_2, \alpha_3$	140		13.56
6.84	$\alpha_0, \alpha_2, \alpha_4$	150		13.60
6.94	$\alpha_0, \alpha_3$	90		13.69
7.10	$\alpha_3, \alpha_4$	60	$4^-, 5^+$	13.83 <sup>b</sup>
7.27	$\alpha_3$	150		13.98

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$E_d$ (MeV $\pm$ keV)	Particles out	$\Gamma_{\text{c.m.}}$ (keV)	$J^\pi; T$	$E_x$ (MeV)
7.31	$\alpha_2$	60	$4^-, 5^+$	14.02 <sup>b</sup>
7.34	$\alpha_0, \alpha_3, \alpha_4$	200		14.04
7.38	$\alpha_0, \alpha_3$	210		14.08
7.41	$\alpha_3$	60	$4^-, 5^+$	14.10 <sup>b</sup>
7.49	$\alpha_0$	220		14.18
7.58	$\alpha_0$	200	$\geq 4; 0$	14.26
7.62	$\alpha_4$	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	$\alpha_3$	200	$3^+, 4^-$	14.40
7.80	$\alpha_0, \alpha_4$	70		14.45
7.82	$\alpha_0, \alpha_2$	225		14.47
7.99	$\alpha_4$	200		14.62
8.02	$\alpha_0$	150		14.65
8.03	$\alpha_3$	310		14.66
8.07	$\alpha_0$	120		14.69
8.08	$\alpha_3, \alpha_4$	310		14.70
8.21	$\alpha_2$	250		14.82
8.25	$\alpha_4$	380		14.85
8.30	$\alpha_0, \alpha_2, \alpha_3$	210		14.90
8.34	$\alpha_4$	115		14.93
8.37	$\alpha_0$	130		14.96
8.37	$\alpha_0, \alpha_3$	250		14.96
8.40	$\alpha_0$	310		14.99
8.43	$\alpha_4$	120		15.01
8.52	$\alpha_3, \alpha_4$	160	$4^-, 5^+$	15.09 <sup>b</sup>
8.52	$\alpha_2$	150		15.09
8.56	$\alpha_2$	220		15.13
8.58	$\alpha_4$	180		15.15
8.61	$\alpha_0, \alpha_3$	200		15.17
8.65	$\alpha_0, \alpha_2$	135		15.21

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$E_{\text{d}}$ (MeV $\pm$ keV)	Particles out	$\Gamma_{\text{c.m.}}$ (keV)	$J^{\pi}; T$	$E_{\text{x}}$ (MeV)
8.72	$\alpha_2, \alpha_4$	120		15.27
8.76	$\alpha_2$	160		15.30
8.79	$\alpha_0$	200		15.33
8.80	$\alpha_0, \alpha_3, \alpha_4$	200	$5^+, 6^-$	15.34 <sup>b</sup>
8.89	$\alpha_3$	110		15.42
8.93	$\alpha_3, \alpha_4$	190		15.46
8.97	$\alpha_2, \alpha_4$	210		15.49
9.00	$\alpha_0, \alpha_2$	190		15.52
9.62	$\alpha_3$	220	$4^-, 5^+$	16.07 <sup>b</sup>
10.35	$\alpha_3$	60	$4^-, 5^+$	16.72 <sup>b</sup>
11.15	$\alpha_3$	70	$4^-, 5^+, 6^-$	17.43 <sup>b</sup>

<sup>a</sup> For references see [Table 18.15 in \(1978AJ03\)](#). This table does not include the structures in  $\alpha_1$  leading to mixed isospin states in  $^{18}\text{F}$ ; for the latter see [Table 18.16 in \(1978AJ03\)](#).

<sup>b</sup> (1978RI05).