

Table 16.25 from (1977AJ02):

Recent $^{16}\text{O}(n, n)$, $^{16}\text{O}(p, p)$, $^{16}\text{O}(d, d)$, $^{16}\text{O}(t, t)$, $^{16}\text{O}(^3\text{He}, ^3\text{He})$, $^{16}\text{O}(\alpha, \alpha)$, $^{16}\text{O}(^6\text{Li}, ^6\text{Li})$,
 $^{16}\text{O}(^7\text{Li}, ^7\text{Li})$, $^{16}\text{O}(^{12}\text{C}, ^{12}\text{C})$, $^{16}\text{O}(^{16}\text{O}, ^{16}\text{O})$ ^a angular distribution studies

E_n (MeV)	Angular distribution of group	Refs.
4.34 – 8.56	n_0	(1972KI1D)
6.87, 7.82	γ_2	(1970LU16)
7.54, 8.04, 8.56	n_{1+2}	(1972KI1D)
14.1	n_0	(1972BO52)
E_p (MeV)	Angular distribution of group	Refs.
9.0 – 20.35	p_0	(1974SK02)
12.703, 13.600, 16.160, 19.425	p_0	(1974JA25)
21.5 – 30.8	p_0, p_2	(1971BU05)
23.4 – 46.1	p_1, p_2, p_5	(1971AU04)
27.2	p_1	(1976CE1F)
30.3 ^b	p_0	(1976DE12)
30.4 ^b	p_0, p_5	(1972GR02)
31.7 – 39.9 ^b	p_5	(1976LE16)
45	see Table 16.26	(1975BU1F, 1976BU15)
49.5	p_0 (back angles)	(1970CL10)
65.8	p_0	(1973LE07)
E_d (MeV)	Angular distribution of group	Refs.
1.0 – 2.0	d_0	(1972CO15)
8	d_0	quoted in (1971KO21)
9.3, 13.3	d_0	(1973CA30)
10.000, 12.052	d_0 ^c	(1974JA25)
13.6	d_0	(1970VE06, 1972MA47)
15	d_0	(1974BU06)
25.4, 36.0, 63.2	d_0	(1974CO04)
81.6	see Table 16.26	(1974DU06)
E_t (MeV)	Angular distribution of group	Refs.
1.85 – 3.70	t_0	(1973WE11)
20.010	t_0 ^c	(1974JA25)

Table 16.25 from (1977AJ02):

Recent $^{16}\text{O}(n, n)$, $^{16}\text{O}(p, p)$, $^{16}\text{O}(d, d)$, $^{16}\text{O}(t, t)$, $^{16}\text{O}(^3\text{He}, ^3\text{He})$, $^{16}\text{O}(\alpha, \alpha)$, $^{16}\text{O}(^6\text{Li}, ^6\text{Li})$,
 $^{16}\text{O}(^7\text{Li}, ^7\text{Li})$, $^{16}\text{O}(^{12}\text{C}, ^{12}\text{C})$, $^{16}\text{O}(^{16}\text{O}, ^{16}\text{O})$ ^a angular distribution studies (continued)

$E(^3\text{He})$ (MeV)	Angular distribution of group	Refs.
11	g.s.	(1970BO25)
71	see Table 16.26	(1974MO26)
E_α (MeV)	Angular distribution of group	Refs.
14.0 – 18.1	$\alpha_0, \alpha_{1+2}, \alpha_3, \alpha_4$	(1975BI1H)
18.9 – 23.0	α_0	(1971BE17)
20.1	α_0	(1972CA45)
20.40 – 24.28	α_0	(1971TA05)
22, 24, 28, 29	α_0	(1972OE01, 1973OE01)
26.6	α_0	(1972KU19)
60	Table 16.26	(1975BU1F, 1976BU15)
104	α_0	(1970HA1G)
104	see Table 16.26	(1976HA19, 1976HA27)
146	$^{16}\text{O}^*(0, 6.13, 6.92, 11.52, 18.4)$ [Table 16.26]	(1975KN05)
$E(^6\text{Li})$ (MeV)	Angular distribution of group	Refs.
4.5, 5.8, 9.0, 13.0	g.s.	(1976PO02)
20	g.s.	(1969BE90)
22.8 ^b	g.s.	(1976WE10)
29.8	g.s.	(1972BA52)
30	g.s.	(1971CH1P, 1971DA33)
$E(^{16}\text{O}) = 36$	g.s.	(1971OR02)
36	g.s.	(1973SC26)
51	g.s.	(1975CH1Q)
$E(^7\text{Li})$ (MeV)	Angular distribution of group	Refs.
9.0, 13.0	g.s.	(1976PO02)
20	g.s.	(1969BE90)
$E(^{16}\text{O}) = 36$	g.s.	(1971OR02)
36	g.s.	(1973SC26)

Table 16.25 from (1977AJ02):

Recent $^{16}\text{O}(\text{n}, \text{n})$, $^{16}\text{O}(\text{p}, \text{p})$, $^{16}\text{O}(\text{d}, \text{d})$, $^{16}\text{O}(\text{t}, \text{t})$, $^{16}\text{O}(\text{}^3\text{He}, \text{}^3\text{He})$, $^{16}\text{O}(\alpha, \alpha)$, $^{16}\text{O}(\text{}^6\text{Li}, \text{}^6\text{Li})$,
 $^{16}\text{O}(\text{}^7\text{Li}, \text{}^7\text{Li})$, $^{16}\text{O}(\text{}^{12}\text{C}, \text{}^{12}\text{C})$, $^{16}\text{O}(\text{}^{16}\text{O}, \text{}^{16}\text{O})$ ^a angular distribution studies (continued)

$E(^{16}\text{O})$ [reaction 72] ^d (MeV)	Angular distribution of group	Refs.
24, 42, 65, 80	g.s.	(1973GU12)
36	g.s.	(1971OR02)
40.3 – 53.2	g.s.	(1976CH13)
45.3, 46.0, 47.1	g.s.	(1972MA29)
46	$^{16}\text{O}^*(6.05, 6.13, 6.92, 7.12)$	(1976SP01)
65, 80	$^{16}\text{O}^*(6.1, 6.9, 8.9, 10.3)$ ^e	(1973GU12)
$E(^{16}\text{O})$ [reaction 76] (MeV)	Angular distribution of group	Refs.
25 to 63	g.s.	(1969MA40, 1970MA1P)
46.6	g.s.	(1974VA18)
51.5	g.s., 6.1 + 6.9	(1974RO04)

^a The earlier work is displayed in Table 16.27 of (1971AJ02).

^b Polarized.

^c Very accurate differential cross sections at several angles.

^d See also reaction 64 in (1971AJ02).

^e And $^{12}\text{C}^*(0, 4.4)$.