

Table 17.12 from (1986AJ04): Resonances ^a in ¹⁶O(n, n) and ¹⁶O(n, α)

E_n (keV)	$\Gamma_{c.m.}$ (keV)	Γ_n (keV)	Γ_α (keV)	J^π	E_x (keV)
433 ± 2^b	45	45		$\frac{3}{2}^-$	4551
1000 ± 2	96	96		$\frac{3}{2}^+$	5084
1140 ^c	< 0.1				5216
1312 ± 2	42	41.5		$\frac{3}{2}^-$	5378
1651 ± 2	3.4 ± 0.3	3.4		$\frac{7}{2}^-$	5697
1689 ± 2	< 1			d	5732
1833 ± 2	6.6 ± 0.7	6.6		$\frac{3}{2}^+$	5868
1908 ± 4	32 ± 3	31.5		$\frac{1}{2}^-$	5938
2351 ± 8^i	124 ± 12	124		$\frac{1}{2}^+$	6355
2889 ± 2	< 1			d	6861
3006 ± 2	< 1			d	6971
3211.70 ± 0.17	1.38 ± 0.05	1.38 ± 0.05^e	0.0033	$\frac{5}{2}^-$	7164.5
3250 ± 10	280 ± 30	280	0.07	$\frac{3}{2}^+$	7201
3438.38 ± 0.19	0.64 ± 0.23	0.64 ± 0.23^e	0.01	$\frac{5}{2}^+$	7377.7
3441.73 ± 0.14	0.96 ± 0.20	0.96 ± 0.20^e	0.003	$\frac{5}{2}^-$	7380.8
3630 ± 20	500 ± 50	500	0.08	$\frac{3}{2}^-$	7558
3647 ^c	< 0.1				7574
3767.76 ± 0.22	14.4 ± 0.3	13.0 ± 0.6^e	0.01	$\frac{7}{2}^-$	7687.5
4053 ± 8	90 ± 9	84	6.7	$\frac{1}{2}^+$	7956
4090 ± 50	270 ± 30	250	16	$\frac{1}{2}^-$	7991
4162 ± 8	85 ± 9	71	15	$\frac{3}{2}^+$	8058
4290 ± 20	69 ± 7	68	0.8	$\frac{1}{2}^-$	(8179)
4310 ± 10	52	48	4.0	$(\frac{3}{2}^-)$	8197
4463.41 ± 0.26	11.4 ± 0.5	8.1 ± 0.3	2.2	$\frac{1}{2}^+$	8341.7
4527.12 ± 0.07	6.17 ± 0.13	4.75 ± 0.11	0.54	$\frac{5}{2}^+$	8401.6
4594.83 ± 0.09	2.13 ± 0.11	1.18 ± 0.04	(7.6)	$\frac{7}{2}^+$	8465.3
4631.78 ± 0.12	6.89 ± 0.22	2.86 ± 0.08	1.9	$\frac{5}{2}^-$	8500.0
4829.9 ± 0.4	55.3 ± 0.6	48.9 ± 1.1	1.8	$\frac{3}{2}^-$	8686.3
5050	78	68	9.5	$\frac{3}{2}^+$	8893
5127.0 ± 1.6	26.3 ± 1.9	23.5 ± 1.9		$\frac{7}{2}^-$	8965.7
5368.90 ± 0.09	3.53 ± 0.13	2.37 ± 0.08		$\frac{5}{2}^+$	9193.2

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E_n (keV)	$\Gamma_{c.m.}$ (keV)	Γ_n (keV)	Γ_α (keV)	J^π	E_x (keV)
5610	120	120		$\frac{3}{2}^-$	9420
5640	140			$\geq \frac{3}{2}$	9448
5919.67 \pm 0.14	23.1 \pm 0.3	18.0 \pm 0.6		$\frac{7}{2}^+$	9711.1
5995.68 \pm 0.15	11.7 \pm 0.3	10.3 \pm 0.3		$\frac{3}{2}^+$	9782.6
6076.08 \pm 0.15	4.01 \pm 0.23	3.37 \pm 0.23		$(\frac{5}{2}^-)$	9858.2
6094.8 \pm 1.0	16.7 \pm 1.7	10.9 \pm 1.2		$(\frac{1}{2}^-)$	9875.8
6404.6 \pm 0.5	49.1 \pm 0.8	22.3 \pm 0.6		$(\frac{7}{2}^-)$	10167.1
6820.7 \pm 0.6	42.5 \pm 1.1	17.2 \pm 0.7 ^e		$(\frac{7}{2}^-)$	10558.4
7199.3 \pm 1.3	41.7 \pm 1.4	26.4 \pm 0.9 ^e		$(\frac{5}{2}^+)$	10914.4
7373.31 \pm 0.18	2.4 \pm 0.3	1.88 \pm 0.12 ^e		$\frac{1}{2}^-$ ^f	11078.0
7830	190			$\geq \frac{3}{2}$	11507
8320	270			$\geq \frac{3}{2}$	11968
8740	130				12363
8848.8 \pm 0.6	6.9 \pm 1.1	1.27 \pm 0.14 ^e		$\frac{3}{2}^-$ ^f	12465.3
9050	95				12654
9353 \pm 6	6 \pm 2	0.21 \pm 0.14 ^e		$\frac{1}{2}^+$ ^f	12939
9414.9 \pm 0.6	2.5 \pm 1.0	0.40 \pm 0.06 ^e		$\frac{5}{2}^-$ ^f	12997.5
10092.5 \pm 2.4	9 \pm 5	0.24 \pm 0.09 ^e		$(\frac{5}{2}^+)$ ^f	13634.6
10130	400				13670
10725.5 \pm 1.5	20.5 \pm 1.6	2.07 \pm 0.16 ^e		$(\frac{7}{2}^-)$ ^f	14229.6
10785 \pm 3	7.5 \pm 4	0.80 \pm 0.16 ^g		^f	14286
10960 \pm 3	40 \pm 6	13 \pm 6 ^g			14450
11140	340			$(\geq \frac{3}{2})$	14619
11322 \pm 3	36 \pm 13	3.2 \pm 1.0 ^g		$(\frac{1}{2}^-)$ ^h	14790
11540	180				14995
11756 \pm 3	52 \pm 14	11 \pm 3 ^g		$(\frac{3}{2})$ ^h	15198
11936 \pm 3	40 \pm 6	7 \pm 1 ^g		$(\frac{5}{2}^+)$ ^h	15368
12867 \pm 4	21 \pm 10	2 \pm 0.5 ^g		$(\frac{9}{2}^+)$ ^h	16243
14136 \pm 11	66 \pm 20	8.0 \pm 2.4 ^g		^f	17435
14853 \pm 4	43 \pm 12	1.0 \pm 0.3 ^e		$\frac{3}{2}^-$	18109

- ^a See Tables 17.12 in (1977AJ02) and (1982AJ01).
- ^b $\Gamma_\gamma < 4.0$ eV, $\Gamma_n = 60 \pm 15$ keV.
- ^c Not observed in σ_t .
- ^d Not $\frac{1}{2}^+$.
- ^e Γ_{n_0} .
- ^f $T = \frac{3}{2}$.
- ^g $(J \pm \frac{1}{2})\Gamma_{n_0}$ (1981HI01).
- ^h J^π assignment by comparison with ^{17}N states presumed to be analogs; then $T = \frac{3}{2}$ (1981HI01).
- ⁱ See also (1980JO1A).