

Table 18.20 from (1987AJ02): Resonances in $^{17}\text{O} + \text{p}$ ^a

E_p (keV)	Yield of	$\Gamma_{\text{c.m.}}$ (keV)	$(2J + 1)\Gamma_\gamma\Gamma_p/\Gamma$ (eV)	$J^\pi; T$	E_x (MeV \pm keV)
517.0 \pm 1.0	γ, α_0	0.24 \pm 0.03	0.26 \pm 0.05	4 ⁻ ; 0	6.095
525	α_0	0.034 \pm 0.003		(1 ⁺)	6.102
561.2 \pm 1.0	γ	≤ 1	2.2 \pm 0.6	0 ⁺ ; 1	6.136
587.1 \pm 1.0	γ, p_0, α_0	14 \pm 0.5	6.7 \pm 1.8	3 ⁺ ; 1	6.161
670.5 \pm 1.0	γ, p_0, α_0	0.19 \pm 0.03	(c)	3 ⁻ ; 0 + 1	6.239
673.0	γ, α_0	0.18 \pm 0.04	(c)	3 ⁻ ; 0 + 1	6.242
690 \pm 4	α_0	0.60 \pm 0.12	≤ 0.02	1 ⁺ ; 0	6.258
714.2 \pm 1.0	γ, p_0, α_0	10.0 \pm 0.5	9.1 \pm 2.3	2 ⁺ ; 1	6.281
741 \pm 2	γ, p_0, α_0	0.95 \pm 0.14	0.64 \pm 0.17	3 ⁺ ; 0	6.306
826 \pm 2	γ, α_0	0.40 \pm 0.09	0.60 \pm 0.18	2 ⁺ ; 0 + 1	6.386
926 \pm 2	γ, α_0	0.40 \pm 0.10	0.36 \pm 0.15	3 ⁺ ; 0	6.481
1015	α_0	0.56 \pm 0.13	≤ 0.0023	5 ⁺ ; 0	6.565
1090	α_0	80 \pm 2		1	6.635
1098.9 \pm 0.4	γ, α	0.60 \pm 0.07	4.3 \pm 1.2	2 ⁻ ; 1	6.6439
1101 \pm 4	α_0	89 \pm 5			6.646
1240 \pm 2 ^b	γ, p_0, α_0	9.2 \pm 1.0	2.8 \pm 0.7	4 ⁺ ; 0	6.777
1270	γ, p_0	≤ 2	0.54 \pm 0.20	1 ⁺ , 2, 3 ⁺ ; 0	6.8031 \pm 1.5
1274 \pm 5	α_0	88 \pm 2		2 ⁻	6.809
1276	α_0	3.0 \pm 0.5		(2 ⁺)	6.811
1338	α_0	5.0 \pm 1.0		(3 ⁻)	6.870
1345 \pm 3	γ, α_0	≤ 2	1.0 \pm 0.4	3, 4 ⁻ ; 0	6.876
1687.5 \pm 1	α_0	6.5	3.9	(4 ⁺); 0	7.199
1738 \pm 2	α_0	46.5	8.8	(1 ⁺); 0	7.247
1784 \pm 2	p_0, α_0	38	47	3 ⁻	7.291
1810 \pm 4	α_0	52	8.5	(3 ⁻ ; 0)	7.315
1832.5 \pm 1	γ, p_0, p_1	16 \pm 2	^d	1 ⁻ ; 1	7.336
1906 \pm 2	p_0, p_1	14.6 \pm 1.4		1 ⁺	7.406
1950 \pm 10	α_0	140	5.6		7.447
1957 \pm 2	p_0	6		1 ⁻	7.454
1983 \pm 2	γ, p_1, α_0	12 \pm 3	1.5	(2)	7.478
(1990 \pm 2)	p_0	32		(1 ⁻)	(7.485)
2012 \pm 2	p_0, α_0	12 \pm 2	7.2	4 ⁻	7.506
2020 \pm 2	γ	< 4			7.513

Table 18.20 from (1987AJ02): Resonances in $^{17}\text{O} + \text{p}$ ^a (continued)

E_p (keV)	Yield of	$\Gamma_{\text{c.m.}}$ (keV)	$(2J + 1)\Gamma_\gamma\Gamma_p/\Gamma$ (eV)	$J^\pi; T$	E_x (MeV \pm keV)
2036 ± 2	$\gamma, p_0, p_1, \alpha_0$	16.5 ± 3.0	5.5^e	$2^-; 1$	7.528
2040 ± 5	p_1, α_0	75			7.532
2064 ± 2	p_0	30		(1^-)	7.555
2095 ± 2	$\gamma, p_0, p_1, \alpha_0$	9 ± 2	3.7^f	g	7.584
2202 ± 2	p_0, p_1, α_0	36 ± 4	25.1	$3^+, 4^+^g$	7.685
2248 ± 4	p_1, α_0	66 ± 5	28.2	≥ 1	7.729
2284 ± 4	p_1	70			7.763
2406 ± 3	p_1, α_0	20	24.4	≥ 2	7.878
2429 ± 2	α_0	38	42	(2^-)	7.899
2473 ± 12	α_0	112	80	(1^+)	7.941
2603 ± 6	p_1, α_0	60	11	≥ 4	8.064
2657 ± 2	p_1	96			8.115
2757 ± 8	p_0, α_0	52	63	2^-	8.209
2788 ± 2	p_0	20		4^+	8.238
2928	α_0	≈ 50			8.370
3915 ± 20	n	95			9.302
(4163 ± 20)	n	19			(9.536)
4235 ± 10	n	33			9.604
4330 ± 10	n	33			9.694
4490 ± 20	n	≈ 100			9.845
(4790 ± 10)	n	28			(10.128)
4900 ± 20	n	≈ 140			10.232

^a For references see Tables 18.18 in (1978AJ03, 1983AJ01).

^b See footnote ^d in Table 18.18 (1978AJ03).

^c This corresponds to a doublet of 3^- , mixed isospin states, separated by 2.09 ± 0.04 keV. $\omega\gamma_{p,\gamma} = 2.04 \pm 0.45$ eV for the lower resonance and 1.16 ± 0.26 eV for the higher one.

^d $\Gamma_\gamma = 3.5 \pm 1.0$ eV.

^e $\Gamma_\gamma = 0.44 \pm 0.10$ eV.

^f $\Gamma_\gamma = 0.11 \pm 0.03$ eV.

^g Assumed to be unresolved.