

Table 18.18 from (1978AJ03): Resonances in $^{17}\text{O} + \text{p}$ ^a

E_p (keV)	Yield ^b of	$\Gamma_{\text{c.m.}}$ (keV)	$(2J+1)\Gamma_\gamma\Gamma_p/\Gamma$ ^c (eV)	$J^\pi; T$	E_x (MeV \pm keV)	Refs.
517.0 ± 1.0	γ, α_0	0.27 ± 0.09	0.26 ± 0.05	$4^-; 0$	6.095	(1962BR08, 1973RO03, 1973RO06, 1973RO34, 1973SE03)
561.2 ± 1.0	γ	≤ 1	2.2 ± 0.6	$0^+; 1$	6.137	(1973RO03, 1973RO04, 1973SE03, 1977BE46)
587.1 ± 1.0	γ, p_0	13 ± 1 ^e	6.7 ± 1.8	$3^+; 1$	6.161	(1973RO03, 1973RO07, 1973RO34, 1973SE02, 1973SE03)
670.5 ± 1.0	γ, p_0, α_0	< 2	3.2 ± 0.7	$3^-; 1$	6.240	(1973RO03, 1973RO06, 1973RO34, 1973SE02, 1973SE03)
690 ± 4	α_0		≤ 0.02	$1^+; 0$	6.258	(1973RO07, 1973RO34, 1973SE02)
714.2 ± 1.0	γ, p_0	8.5 ± 1.0 ^f	9.1 ± 2.3	$2^+; 1$	6.281	(1973RO03, 1973RO07, 1973SE02, 1973SE03)
741 ± 2	γ, p_0, α_0	≤ 1.2 ^g	0.64 ± 0.17	$3^+; 0$	6.307	(1962BR08, 1973RO03, 1973RO07, 1973RO34, 1973SE02, 1973SE03)
826 ± 2	γ, α_0	≤ 1 ^c	0.60 ± 0.18	$2^+; 0 + 1$	6.387	(1962BR08, 1973RO03, 1973RO07, 1973RO34, 1973SE02, 1973SE03)
926 ± 2	γ, α_0	≤ 2	0.36 ± 0.15	$3^+; 0$	6.481	(1962BR08, 1973RO03, 1973RO07, 1973RO34, 1973SE02)
			≤ 0.0023	$5^+; 0$	6.57	(1973RO05, 1973SE03)
1098.9 ± 0.4	γ	0.87 ± 0.09	4.3 ± 1.2	$2^-; 1$	6.6444	(1973RO03, 1973RO06, 1973RO34, 1973SE03, 1975RO05)
1101 ± 4	α_0	89 ± 5			6.646	(1962BR08, 1973RO06, 1973SE02)
1240 ± 2 ^d	γ, p_0	9 ± 3 ^c	2.8 ± 0.7	$4^+; 0$	6.778	(1962BR08, 1973RO03, 1973RO07, 1973RO34, 1973SE02, 1973SE03)
1269	γ, p_0	≤ 2	0.54 ± 0.20	$1^+, 2, 3^+; 0$	6.8031 ± 1.5	(1973RO03, 1973RO07, 1973RO34, 1973SE02, 1973SE03)
1274 ± 5	α_0	79 ± 5		2^-	6.810	(1962BR08, 1973RO06, 1973SE02)
1345 ± 3	γ, α_0	≤ 2	1.0 ± 0.4	$3, 4^-; 0$	6.877	(1962BR08, 1973RO03, 1973RO06, 1973RO34, 1973SE03)
1786	α_0	≈ 65			7.293	(1957AH20)
2021	α_0	11			7.515	(1957AH20)
2048	α_0	90			7.540	(1957AH20)

Table 18.18 from (1978AJ03): Resonances in $^{17}\text{O} + \text{p}$ ^a (continued)

E_p (keV)	Yield ^b of	$\Gamma_{\text{c.m.}}$ (keV)	$(2J+1)\Gamma_\gamma\Gamma_p/\Gamma$ ^c (eV)	$J^\pi; T$	E_x (MeV \pm keV)	Refs.
2218	α_0	11			7.701	(1957AH20)
2235	α_0	100			7.717	(1957AH20)
2406	α_0	≈ 25			7.878	(1957AH20)
2435	α_0	≈ 25			7.906	(1957AH20)
2623	α_0	≈ 40			8.083	(1957AH20)
2753	α_0	≈ 15			8.206	(1957AH20)
2775	α_0	≈ 10			8.226	(1957AH20)
2928	α_0	≈ 50			8.371	(1957AH20)
3915 \pm 20	n	95			9.302	(1973BA31)
(4163 \pm 20)	n	19			(9.537)	(1973BA31)
4235 \pm 10	n	33			9.605	(1973BA31)
4330 \pm 10	n	33			9.694	(1973BA31)
4490 \pm 20	n	≈ 100			9.845	(1973BA31)
(4790 \pm 10)	n	28			(10.128)	(1973BA31)
4900 \pm 20	n	≈ 140			10.232	(1973BA31)

^a See also [Table 18.20 in \(1972AJ02\)](#) and [Table 18.19](#) here.

^b For observed γ -decay and branching ratios from this state see [Table 18.11](#).

^c $\Gamma_p = 2.5 \pm 0.2$ keV, $\theta_p^2 = 0.062$ (1973SE02). See also (1973SE03).

^d (1973RO03) quote $E_p = 1140$ keV but $E_x = 6777$ keV. In (1973RO07), E_p is given as 1240 keV. We assume 1140 keV to be a typographical error.

^e (1973SE02) report $\Gamma_{\text{c.m.}} = 14.7 \pm 1.5$ keV, $\Gamma_p = \Gamma$, $\theta_p^2 = 0.14$.

^f $\Gamma_p = \Gamma$, $\theta_p^2 = 0.035$ (1973SE02).

^g $\Gamma_p < 0.5$ keV, $\theta_p^2 < 0.0024$ (1973SE02).