

Table 19.5 from (1987AJ02): Resonances in  $^{18}\text{O}(n, n)^{18}\text{O}$  <sup>a</sup>

$E_{\text{res}}$ (MeV $\pm$ keV)	$\Gamma$ (keV)	$^{19}\text{O}^*$ (MeV)	$J^\pi$
0.67	$52 \pm 3$ <sup>b</sup>	4.59	$\frac{3}{2}^-$
1.18	$49 \pm 5$ <sup>b</sup>	5.07	$\frac{1}{2}^-$
$1.256 \pm 10$ <sup>b</sup>	$3.4 \pm 1.0$ <sup>b</sup>	5.146	$\geq \frac{5}{2}^{(+)}$
1.42 <sup>c</sup>		5.30	$\frac{3}{2}^-$
1.67	490	5.54	$\frac{3}{2}^+$
$1.840 \pm 10$ <sup>b</sup>	$7.8 \pm 1.4$ <sup>b</sup>	5.699	$\frac{7}{2}^-, \frac{5}{2}$
2.22	110	6.06	$\frac{3}{2}^+$
2.45	$19.2 \pm 2.4$ <sup>b</sup>	6.28	$\frac{7}{2}^-$
6.00		9.64	$\frac{7}{2}^-$
6.21		9.84	$\frac{7}{2}^-$
6.60		10.21	$\frac{7}{2}^-$
7.08 <sup>d</sup>		10.66	$\frac{7}{2}^-$

<sup>a</sup> These data are from a multi-level  $R$ -matrix re-analysis by (1986KO10) of the work displayed in Table 19.4 of (1978AJ03), together with unpublished  $\sigma_t$  data by G.F. Auchampaugh, and  $\sigma(\theta)$  for  $n_0$  and  $n_1$  for  $5.0 < E_n < 7.5$  MeV. Uncertainties in  $E_x$  and  $\Gamma$  cannot be estimated. See also (1986KO10) for other states. I am indebted to Dr. Paul E. Koehler for additional comments.

<sup>b</sup> See Table 19.4 of (1978AJ03):  $\Gamma_{\text{c.m.}}$ .

<sup>c</sup> See discussion in (1986KO10).

<sup>d</sup> May be a doublet, but at least one of the states has  $J^\pi = \frac{7}{2}^-$  (1986KO10).