

Table 16.23 from (1993TI07): Resonances in $^{15}\text{N}(p, n)^{15}\text{O}$ ^a

E_p (MeV \pm keV)	$\Gamma_{\text{c.m.}}$ (keV)	$J^\pi; T$ ^b	E_x (MeV)
4.37 \pm 15	19 \pm 6	1 ⁽⁺⁾ ; 1	16.22
4.45 \pm 30	240 \pm 30	0 ⁽⁻⁾	16.30
5.35 \pm 15	33 \pm 5	1 ⁽⁻⁾ ; 1	17.14
5.52 \pm 15	90 \pm 10	1 ⁻ ; 1	17.30
5.88 \pm 15	59 \pm 10	\geq 1; 1	17.64
6.12 \pm 15	101 \pm 10	\geq 1; 1	17.86
6.23 \pm 15 ^c	\leq 50	$T = 1$	17.96
6.33 \pm 15	26 \pm 5	\geq 1; 1	18.06
6.43 \pm 30	\simeq 300		18.15
6.76 \pm 25	\simeq 160		18.46
7.03 \pm 30	260 \pm 30		18.71
7.59 \pm 25	90 \pm 10	2 ⁻ ; 1	19.24
7.86 \pm 30	300 \pm 80		19.49
8.30 \pm 25	120 \pm 40		19.90
8.88 \pm 40 ^d	200 \pm 50	2	20.45
9.08 \pm 40	130 \pm 50		20.63
9.42 \pm 100	235 \pm 45		20.95
10.73 \pm 100	800 \pm 95	1	22.18
11.01 \pm 100	300 \pm 100		22.44
11.92 \pm 100	520 \pm 200		23.29
13.03 \pm 100	520 \pm 100		24.33
13.63 \pm 100	\approx 280	2, 4	24.89
15.12 \pm 100	610 \pm 140	2, 4	26.29
18.4 \pm 200	470 \pm 150		29.4

^a For references see [Table 16.19 in \(1982AJ01\)](#).

^b Assignments are from (p, n) and (p, γ) results. The T -assignments are made on the basis of energy and width comparisons with states of ^{16}N .

^c Probably a doublet.

^d Values of $(2J + 1)\Gamma_{p_0}\Gamma_{n_0}/\Gamma^2$ are derived for this resonance and the ones below: see [\(1978CH09\)](#).