

Table 16.24 from (1993TI07):  
States in  $^{16}\text{O}$  from  $^{15}\text{N}(\text{d}, \text{n})$  and  $^{15}\text{N}(\text{}^3\text{He}, \text{d})$

$^{16}\text{O}^*$ (MeV $\pm$ keV)	$J^\pi; T$	$l^a$	$l^b$	$S^c$
0	$0^+; 0$	1	1	3.1
6.05	$0^+; 0$		1	<sup>d</sup>
6.13	$3^-; 0$	2	2	
6.92	$2^+; 0$	not direct	1 + 3	<sup>d</sup>
7.12	$1^-; 0$	0	0 + 2	
8.87	$2^-; 0$	2	2	0.72
9.59	$1^-; 0$		0	<sup>d</sup>
9.84	$2^+; 0$	1	not direct	<sup>d</sup>
10.36	$4^+; 0$		3	<sup>d</sup>
10.96	$0^-; 0$	0	0	0.76
11.08	$3^+; 0$	3	3	0.18
11.26	$0^+; 0$		broad	
12.44	$1^-; 0$	0	0	0.40
12.53	$2^-; 0$	2	2	0.72
12.80	$0^-; 1$	0	0	0.44
12.97	$2^-; 1$	2	2	0.40
13.09	$1^-; 1$	(0)		0.58
			2(+ 0)	
13.13 <sup>e</sup>	$3^-; 0$	(2)		0.32
13.26	$3^-; 1$	2	2	0.46
17.14			obs.	
17.20	$2^+$		obs.	

<sup>a</sup>  $^{15}\text{N}(\text{d}, \text{n})$ ;  $E_{\text{d}} = 4.8$  to  $6$  MeV; see (1977AJ02) for references.

<sup>b</sup>  $^{15}\text{N}(\text{}^3\text{He}, \text{d})$ ;  $E(\text{}^3\text{He}) = 11, 16.0$  and  $24.0$  MeV; see (1977AJ02).

<sup>c</sup> “Best” values from (d, n) and ( $^3\text{He}$ , d) data. See Table 16.22 in (1977AJ02) for a more complete display.

<sup>d</sup> Very small value of  $S$ : see (1977AJ02).

<sup>e</sup>  $\Gamma = 128$  keV.