

Table 16.10 from (1977AJ02): States in ^{16}O from $^{10}\text{B}(^{10}\text{B}, \alpha)^{16}\text{O}$ (1976AJ02)

E_x (MeV \pm keV)	Corresponds to $^{16}\text{O}^*[J^\pi]$	σ_t^b (mb)	Predicted σ_t^c (mb)
0	0[0 ⁺]	0.2	\equiv 0.2
6.088 \pm 15	6.05[0 ⁺] + 6.13[3 ⁻]	1.6	1.6
6.904 \pm 20	6.92[2 ⁺]	1.1	1.0
7.115 \pm 20	7.12[1 ⁻]	0.6	0.6
\equiv 8.8719	8.87[2 ⁻]	1.0	1.0
9.850 \pm 15	9.85[2 ⁺]	1.5	1.0
10.361 \pm 20	10.35[4 ⁺]	1.8	1.8
11.106 \pm 20	10.95[0 ⁻] + 11.08[3 ⁺] + 11.10[4 ⁺]	4.3	3.2
11.54 \pm 30	11.52[2 ⁺]	1.0	1.0
12.554 \pm 15	12.53[2 ⁻]	1.2	1.0
13.14 \pm 30	13.13[3 ⁻]		
d	13.66[1 ⁺]		
13.910 \pm 20	13.88[4 ⁺]		
13.98 \pm 30	13.98[2 ⁻]		
14.412 \pm 15	14.30[?] + 14.40[> 5]	4.1	> 2.2
14.86 \pm 30	14.82[6 ⁺] + 14.92[4 ⁺]	3.9	4.4
15.838 \pm 15	15.84[?]	1.4 \pm 0.3	
16.276 \pm 20	16.21[(4 ⁺)]		
17.200 \pm 20	17.20[2 ⁺]		
17.825 \pm 25	17.85[4 ⁺]		
d	18.02[(4 ⁺)]		
18.531 \pm 25	18.48[2 ⁺] + 18.6[1 ⁻ , 5 ⁻]		
18.69 \pm 30	18.69[3 ⁻]		
d	18.80[(4 ⁺)]		
18.90 \pm 35			
d	18.99[3 ⁻]		
19.55 \pm 35	19.55[(3 ⁻)]		
19.91 \pm 20	19.91[(4 ⁺)]		
20.538 \pm 15	20.54[\geq 1]		
21.175 \pm 15			
21.84 \pm 25	21.84[6]		

Table 16.10 from (1977AJ02): States in ^{16}O from $^{10}\text{B}(^{10}\text{B}, \alpha)^{16}\text{O}$ (1976AJ02) (continued)

E_x (MeV \pm keV)	Corresponds to $^{16}\text{O}^*[J^\pi]$	σ_t ^b (mb)	Predicted σ_t ^c (mb)
22.65 \pm 30			
23.51 \pm 30	23.51[?]		

^a Very broad states in ^{16}O are assumed not to contribute appreciably to the strength of the alpha group from which an appropriate smooth background has been subtracted.

^b From integrating angular distribution over forward and back hemispheres, by folding the available data at $\theta_{c.m.} = 90$: estimated uncertainties $\pm 20\%$, except for $^{16}\text{O}^*(15.84)$.

^c Predicted σ based on $2J_f + 1$, assuming that the states listed in col. 2 are involved and that σ_t for a $J = 0$ state is 0.2 mb.

^d Unresolved in this work.