

Table 12.13 from (1968AJ02): Deuteron groups from  $^{11}\text{B}(^3\text{He}, \text{d})^{12}\text{C}$

$^{12}\text{C}^*$ <sup>a</sup> (MeV $\pm$ keV)	$\Gamma$ <sup>b</sup> (keV)	$l$	$J^\pi$	$(2J + 1)\theta_p^2$ <sup>b</sup>	$(2J + 1)S_{\text{rel}}$ <sup>e</sup>
0		1 <sup>c,e</sup>	$0 \rightarrow 3^+$		1.00
4.44		1 <sup>c,e</sup>	$0 \rightarrow 3^+$		0.61
7.66		1 <sup>c,e</sup>	$0 \rightarrow 3^+$		0.035
$9.629 \pm 10$ <sup>d</sup> (10.1)		2 <sup>b,c,e</sup>	$0 \rightarrow 4^-$	0.048	0.30
$10.84 \pm 20$ <sup>b</sup>	$320 \pm 30$	0 <sup>b</sup>	$1^-, 2^-$	0.040	
$11.82 \pm 20$ <sup>b</sup>	$300 \pm 30$	0 <sup>b</sup>	$1^-, 2^-$	0.073	
$12.70 \pm 10$ <sup>b</sup>		1 <sup>b,e</sup>	$0 \rightarrow 3^+$	0.13	0.26
$13.38 \pm 20$ <sup>b</sup>	$700 \pm 100$				
$14.71 \pm 10$ <sup>b</sup>	$< 15$				

<sup>a</sup> Levels listed without errors were observed by (1960FO01) or (1961HI08) but the level energies were not determined.

<sup>b</sup> (1961HI08);  $E(^3\text{He}) = 9.84$  MeV.

<sup>c</sup> (1960FO01);  $E(^3\text{He}) = 5.1$  MeV.

<sup>d</sup> Based on  $7656 \pm 7$  keV for next lower level (1960FO01).

<sup>e</sup> (1967CR04); DWBA;  $E(^3\text{He}) = 10$  MeV.