

Table 12.14 from (1975AJ02): Maxima in yields of  $^{11}\text{B}(p, n)^{11}\text{C}$  and  $^{11}\text{B}(p, p')^{11}\text{B}^*$

Peak number	A		(1965OV01) <sup>a,b</sup>		(1955BA22) <sup>c</sup>		(1965SE06) <sup>e</sup>		$E_x$ (MeV)
	$E_p$ (MeV)	$\Gamma_{\text{lab}}$ (keV)	$E_p$ (MeV)	res. in group(s)	$E_p$ (MeV)	$\Gamma_{\text{lab}}$ (keV)	$E_p$ (MeV)	$\Gamma_{\text{lab}}$ (keV)	
1							1.98 <sup>d</sup>		17.77
2					2.664	48	2.66 <sup>c,d</sup>	46	18.40
3	3.16	100			3.15	100	3.15 <sup>c,d</sup>	100	18.84
4	3.66	500			3.4	500	3.5 <sup>c</sup>	broad	19.3
5					3.78	50			19.42
6	4.05	200	4.10	$n_0$					19.69
7					4.28	100			19.88
8	4.70	150	4.62	$n_0$	4.68	200			20.24
9	5.065	180	5.07	$n_0$	5.13	200			20.60
10	5.48	300	5.50	$n_0$					20.98
11	6.04	560	6.01	$n_0, n_1$					21.47
12			6.4	$n_0$					21.8
13	7.29	360	7.3	$n_0, n_1$					22.63
14	7.74	65	7.73	$n_0, n_1$			7.73 <sup>f</sup>		23.04
15	8.25	380	8.25	$n_0, n_1$					23.51
16	(8.30)	( $\leq 50$ )							(23.56)
17	8.65	180	8.6	$n_0, n_2$					23.88
18	9.0								24.2
19	9.25	110	9.25	$n_0, n_2$					24.43
20	9.79	1000	9.79	$n_0, n_1$					24.92
21	10.14	180	10.1	$n_0, n_2$					25.24
22	10.91	440	10.9	$n_0$					25.95
23	11.88	300							26.84

A: (1955BA22, 1959GI47, 1961LE11, 1964BA16, 1965SE06): see (1968AJ02).

<sup>a</sup> Widths  $\approx 200$  keV, except  $E_p = 6.4$  and  $\geq 9.25$  MeV which are wider.

<sup>b</sup> (p, n).

<sup>c</sup> (p, p').

<sup>d</sup> (p, p).

<sup>e</sup> See also Table 12.12.

<sup>f</sup> Observed in (p, p) and (p, p') with polarized protons:  $J^\pi = 2^-$ ;  $T = 1$  is consistent with the data (1971SAIH: conf. proceedings).