

Table 12.12 from (1990AJ01): Anomalies and maxima in yields <sup>a</sup> of <sup>11</sup>B(p, n)<sup>11</sup>C and <sup>11</sup>B(p, p)<sup>11</sup>B

Peak number	A			B			$J^\pi$	$E_x$ (MeV)
	$E_p$ (MeV)	$\Gamma_{lab}$ (keV)	res. in	$E_p$ (MeV)	$\Gamma_{lab}$ (keV)	res. in		
1				0.67	330	p <sub>0</sub>	2 <sup>-</sup>	16.57
2				1.4		p <sub>0</sub>	1 <sup>-</sup>	17.24
3				1.98		p <sub>0</sub>	0 <sup>+</sup>	17.77
4	2.664	48		2.66	47	p <sub>0</sub> , p <sub>1</sub>		18.40
5	3.16	100		3.15	100	p <sub>0</sub> , p <sub>1</sub>		18.85
6	3.5	500		3.4	500	p <sub>1</sub>		19.1
7	3.78	50		3.78	50	p <sub>0</sub> , p <sub>1</sub>		19.42
8	4.08	200	n <sub>0</sub>					19.69
9	4.28	100		4.28	100	p <sub>1</sub>		19.88
10	4.68	170	n <sub>0</sub>	4.68 <sup>c</sup>	330 ± 40	p <sub>0</sub> , p <sub>1</sub>	1 <sup>+</sup> ; 1	20.24
11	5.065	190	n <sub>0</sub>	5.10 <sup>c, d</sup>	350 ± 15	p <sub>0</sub> , p <sub>1</sub>	3 <sup>-</sup> ; 1	20.61
12	5.49	400	n <sub>0</sub>					20.98
13	6.02	560	n <sub>0</sub> , n <sub>1</sub>	6.08 <sup>c</sup>	290 ± 25	p <sub>0</sub> , p <sub>1</sub> , p <sub>2</sub>	3 <sup>-</sup>	21.50
14	6.4	wide	n <sub>0</sub>	6.58 <sup>c</sup>	7800 ± 1100	p <sub>0</sub> , p <sub>2</sub> , p <sub>3</sub>	1 <sup>-</sup> ; 1	22.00
15	≈ 7.0	340	n <sub>0</sub>	7.11 <sup>c</sup>	720 ± 90	p <sub>0</sub> , p <sub>2</sub> , p <sub>3</sub>	3 <sup>-</sup>	22.47
16	7.29	360	n <sub>0</sub> , n <sub>1</sub>					22.63
17	7.74	65	n <sub>0</sub> , n <sub>1</sub>					23.04
18	8.25	380	n <sub>0</sub> , n <sub>1</sub>					23.51
19	8.65	180	n <sub>0</sub> , n <sub>2</sub>					23.88
20	9.0 <sup>b</sup>							24.2
21	9.25	110	n <sub>0</sub> , n <sub>2</sub>					24.43
22	9.79	1000	n <sub>0</sub> , n <sub>1</sub>					24.92
23	10.14	180	n <sub>0</sub> , n <sub>2</sub>					25.24
24	10.91	440	n <sub>0</sub>					25.95
25	11.88	300						26.83

A: From the (p, n) reaction.

B: From the (p, p) reaction.

<sup>a</sup> See also [Tables 12.11 in \(1968AJ02\)](#), [12.13 in \(1980AJ01\)](#) and [12.12 in \(1985AJ01\)](#) for additional work. The earlier references are listed there.

<sup>b</sup> Also resonance in  $K_y^y(0^\circ)$ .

<sup>c</sup> (1983BO19). *R*-matrix analysis.

<sup>d</sup> See also  $\alpha$ -decay in [Table 12.11](#).