

Table 12.12 from (1985AJ01): Anomalies and maxima in yields ^a of ¹¹B(p, n)¹¹C and ¹¹B(p, p)¹¹B

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

A: From the (p, n) reaction.

B: from the (p, p) reaction.

^a See also Tables 12.11 in (1968AJ02) and 12.13 in (1980AJ01) for additional work. The earlier references are listed there.

^b See also (1965OV01).

^c See also (1980RA16).

^d (1981HO13); see also for possible additional structures.

^e Also resonance in $K_y^{\bar{y}}(0^{\circ})$.

^f (1983BO19). *R*-matrix analysis.

^g See also α -decay in Table 12.11.