

Table 15.5 fromm (1970AJ04): Resonances in $^{11}\text{B} + \alpha$

E_α (MeV)	Γ_{lab} (keV)	Particle out	E_x (MeV)	J^π	Refs. ^a
0.60		n	11.43		(1954BE08) ^b
1.03		n	11.75		(1954BE08)
1.18		n	11.86		(1954BE08)
1.30		n	11.95		(1954BE08)
1.51		n, p	12.10		(1955SH46)
1.58		n, p	12.15		(1955SH46)
2.06	66	n_0, p_0	12.50	$\frac{3}{2}^+$	(1955SH46, 1956BO61, 1958HA1B, 1959LE28)
2.63	80	n_0, p_0	12.92	$\frac{3}{2}^-$	(1956BO61, 1958HA1B, 1959LE28, 1963MA28, 1966MA04)
2.64	40	p_0	12.93	$\frac{2}{2}^-$	(1959LE28, 1963MA28)
2.94	< 6	n_0, p_0	13.15		(1956BO61, 1958HA1B, 1959LE28)
2.99	8	n_0, p_0	13.18		(1956BO61, 1958HA1B, 1959LE28, 1966MA04)
3.23	29	n_0, p	13.36	$\frac{3}{2}^-$	(1956BO61, 1958HA1B, 1959LE28, 1963MA28, 1966MA04)
3.31	40	p	13.42	$\frac{3}{2}^+$	(1959LE28, 1963MA28)
3.56	20	n_0, p	13.61	$(\frac{3}{2}, \frac{7}{2})^-$	(1956BO61, 1958HA1B, 1959LE28, 1963MA28, 1966MA04)
3.64	≈ 110	p_0	13.66		(1963MA28)
3.71	40	n_0	13.71		(1956BO61, 1958HA1B, 1963MA28, 1966MA04)
3.76		n_0	13.75		(1966MA04)
3.95		n_0	13.89		(1963MA28, 1966MA04)
4.15		p_0	14.03		(1963MA28)
4.19		n_1	14.06		(1963MA28, 1966MA04)
4.24		n_0	14.10		(1963MA28, 1966MA04)
4.31	35	n_1	14.15		(1956BO61, 1958HA1B, 1963MA28, 1966MA04)
4.35		n_0	14.18		(1963MA28, 1966MA04)
4.41		n_0	14.23		(1963MA28, 1966MA04)
4.56		p_0	(14.33)		(1963MA28)

Table 15.5 fromm (1970AJ04): Resonances in $^{11}\text{B} + \alpha$ (continued)

E_α (MeV)	Γ_{lab} (keV)	Particle out	E_x (MeV)	J^π	Refs. ^a
4.73	≈ 250	p ₀	14.46		(1963MA28)
4.96	72	n ₀	14.63		(1956BO61, 1958HA1B)
5.34		n ₀	14.90		(1958HA1B)
5.49		n ₀	15.01		(1958HA1B)
5.58		n ₀	15.08		(1958HA1B)
5.86		n ₀	15.29		(1958HA1B)
5.98		n ₀ , n ₂	15.37		(1958HA1B)
6.30		n ₀ , (n ₂)	15.61		(1958HA1B)
6.60		n, p	15.83		(1963ED01) ^c
6.72		n ₀ , (n ₂)	15.92		(1958HA1B)
6.74		n ₀ , n ₂	15.93		(1958HA1B)
6.82		n ₀ , n ₂	15.99		(1958HA1B)
6.89		n, p	16.04		(1958HA1B, 1963ED01)
6.94		n, p	16.08		(1963ED01)
7.08		n, p	16.18		(1963ED01)
7.26		n, p	16.31		(1963ED01)
7.31		n, p	16.35		(1963ED01)
7.41		n, p	16.42		(1963ED01)
7.56		n, p	16.53		(1963ED01)
7.65		n, p	16.60		(1963ED01)
7.77		n, p	16.69		(1963ED01)
7.84		n, p	16.74		(1963ED01)
7.86		n, p	16.75		(1963ED01)
8.07		n, p	16.91		(1963ED01)
8.17		n, p	16.98		(1963ED01)

Table 15.5 fromm (1970AJ04): Resonances in $^{11}\text{B} + \alpha$ (continued)

E_α (MeV)	Γ_{lab} (keV)	Particle out	E_x (MeV)	J^π	Refs. ^a
8.44		n, p	17.18		(1963ED01)
8.46		n, p	17.19		(1963ED01)
8.59		n, p	17.29		(1963ED01)
8.68		n, p	17.35		(1963ED01)
8.88		n, p	17.50		(1963ED01)
8.96		n, p	17.56		(1963ED01)
8.99		n, p	17.58		(1963ED01)
9.49		n, p	17.95		(1963ED01)

^a It should be noted that (1954BE08), (1958HA1B) and (1963ED01) are unpublished. They are quoted here only because of the dearth of published information on these resonances.

^b And private communication.

^c Resonant energies listed by (1963ED01) are ± 40 keV.