

Table 15.7 from (1981AJ01): Resonances in  $^{11}\text{B} + \alpha$ 

$E_\alpha$ (MeV $\pm$ keV)	$\Gamma_{\text{c.m.}}$ (keV)	Particle out	$J^\pi$	$E_x$ (MeV)	Refs.
0.60		n		11.43	(1954BE08) <sup>a</sup>
1.03		n		11.75	(1954BE08)
1.18		n		11.86	(1954BE08)
1.30		n		11.94	(1954BE08)
1.51		n, p	$(\frac{5}{2}^+)$	12.10	(1955SH46, 1976DA06)
1.58	$41 \pm 5$	n, p	$(\frac{3}{2}^-)$	12.15	(1955SH46, 1976DA06)
$2.056 \pm 10$	$34 \pm 5$	$n_0, p_0$	$\frac{5}{2}^+$	12.499	A, (1975VA06, 1976DA06)
$2.610 \pm 13$	$56 \pm 11$	$n_0, p_0, \alpha$	$\frac{3}{2}^-$	12.905	A, (1972RA03, 1975VA06, 1976DA06)
$2.66 \pm 30$	81	$p_0, \alpha$	$\frac{5}{2}^+$	12.94	A, (1972RA03, 1976DA06)
$2.942 \pm 10$	$7 \pm 3$	$n_0, p_0$		13.149	A, (1975VA06)
$2.984 \pm 10$	$7 \pm 3$	$n_0, p_0$		13.180	A, (1975VA06)
$3.239 \pm 15$	$16 \pm 8$	$n_0, p, \alpha$	$\frac{3}{2}^-$	13.366	A, (1972RA03, 1975VA06)
$3.31 \pm 30$	61	$p, \alpha$	$\frac{3}{2}^+$	13.42	A, (1972RA03)
$3.46 \pm 30$	$85 \pm 30$	$n_0, \alpha$	$\frac{3}{2}^-$	13.53	(1972RA03, 1975VA06)
$3.560 \pm 10$	$18 \pm 4$	$n_0, p$	$(\frac{5}{2}, \frac{7}{2})^-$	13.602	A, (1975VA06)
$3.57 \pm 30$	94	$\alpha$	$\frac{1}{2}^+$	13.61	(1972RA03)
$3.712 \pm 10$	$26 \pm 8$	$n_0$		13.713	A, (1975VA06)
$(3.78 \pm 30)$	70	$\alpha$	$(\frac{1}{2}^+)$	(13.76)	(1972RA03)
$3.89 \pm 30$	$\approx 70$	$n_1, \alpha$	$(\frac{3}{2}^+)$	13.84	(1972RA03, 1975VA06)
$4.09 \pm 30$	$\approx 100$	$n_1$		13.99	(1975VA06)
$4.232 \pm 10$	$22 \pm 6$	$n_0$		14.094	(1975VA06)
$4.24 \pm 30$	$\approx 100$	$n_1, \alpha$	$\frac{3}{2}^+$	14.10	(1972OT04, 1975VA06)
$4.324 \pm 10$	$27 \pm 6$	$n_0$		14.162	A, (1975VA06)
$4.43 \pm 40$	150	$\alpha$	$\frac{5}{2}^+$	14.24	(1972OT04)
$4.62 \pm 40$	100	$\alpha$	$\frac{7}{2}^+$	14.38	(1972OT04)
$4.85 \pm 20$	$200 \pm 50$	$n_0$		14.55	(1975VA06)
$4.986 \pm 10$	$33 \pm 6$	$n_0$		14.647	(1975VA06)
$5.11 \pm 30$	$110 \pm 50$	$n_0$		14.74	(1975VA06)
$5.28 \pm 20$	$48 \pm 11$	$n_0, \alpha$		14.86	(1972OT04, 1975VA06)
$5.538 \pm 10$	$12 \pm 3$	$n_0$		14.920	(1975VA06)
$5.501 \pm 10$	$13 \pm 3$	$n_0$		15.025	(1975VA06)
$5.59 \pm 20$	$80 \pm 25$	$n_0, \alpha$		15.09	(1972OT04, 1975VA06)
$5.860 \pm 10$	$22 \pm 6$	$n_0, \alpha$		15.288	(1972OT04, 1975VA06)

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$E_\alpha$ (MeV $\pm$ keV)	$\Gamma_{\text{c.m.}}$ (keV)	Particle out	$J^\pi$	$E_x$ (MeV)	Refs.
$5.98 \pm 20$	$75 \pm 25$	$n_2, (\alpha)$		15.38	(1972OT04, 1975VA06)
$6.06 \pm 20$	$\approx 100$	$n_0, (\alpha)$		15.43	(1972OT04, 1975VA06)
$6.19 \pm 20$	$\approx 35$	$n_0$		15.53	(1975VA06)
$6.29 \pm 20$	$95 \pm 25$	$n_2$		15.60	(1975VA06)
( $6.65 \pm 40$ )		$(\alpha)$		(15.87)	(1972OT04)
$6.73 \pm 20$	$35 \pm 10$	$n_0, n_2$		15.93	(1975VA06)
$6.755 \pm 15$	$21 \pm 6$	$n_1$		15.944	(1975VA06)
$6.83 \pm 20$	$60 \pm 20$	$n_2$		16.00	(1975VA06)
$6.884 \pm 15$	$62 \pm 12$	$n_0, \alpha$		16.039	(1972OT04, 1975VA06)
( $6.98 \pm 40$ )		$(\alpha)$		(16.11)	(1972OT04)
$7.18 \pm 20$	$\approx 100$	$n_0, \alpha$		16.26	(1975VA06)
$7.27 \pm 20$	$\approx 30$	$n_0$		16.32	(1975VA06)
$7.37 \pm 20$	$44 \pm 11$	$n_2$		16.39	(1975VA06)
$7.616 \pm 15$	$27 \pm 15$	$n_0, (n_2)$		16.576	(1975VA06)
$7.754 \pm 15$	$60 \pm 10$	$n_0, (n_2)$		16.677	(1975VA06)

A: see references listed for this state in [Table 15.5 \(1970AJ04\)](#).

<sup>a</sup> And private communication.