

$B_1(5721)^+$
 $I(J^P) = \frac{1}{2}(1^+)$
I, J, P need confirmation.

Quantum numbers shown are quark-model predictions.

 $B_1(5721)^+$ MASSOUR FIT uses $m_{B^{*0}}$ and $m_{B_1^+} - m_{B^{*0}}$ to determine $m_{B_1(5721)^+}$.

VALUE (MeV)	EVTS	DOCUMENT ID	TECN	COMMENT
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5725.9 $^{+2.5}_{-2.7}$ OUR FIT **$m_{B_1^+} - m_{B^{*0}}$**

VALUE (MeV)	EVTS	DOCUMENT ID	TECN	COMMENT
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401.2 $^{+2.4}_{-2.7}$ OUR FIT**401.2 $^{+2.4}_{-2.7}$ OUR AVERAGE**

400.5 \pm 1.8 \pm 3.1	8K	¹ AAIJ	15AB LHCb	$p\bar{p}$ at 7, 8 TeV
402 \pm 3 $^{+1}_{-3}$		² AALTONEN	14I CDF	$p\bar{p}$ at 1.96 TeV

¹ AAIJ 15AB reports $[m_{B_1^+} - m_{B^0}] - (m_{B^{*0}} - m_{B^0}) - m_{\pi^+} = 260.9 \pm 1.8 \pm 3.1$ MeV which we adjust by the π^+ mass and assume $(m_{B^{*0}} - m_{B^0}) = (m_{B^{*+}} - m_{B^+}) = 45.01 \pm 0.30 \pm 0.23$ MeV. The masses inside the square brackets were measured for each candidate event.

² AALTONEN 14I reports $m_{B_1(5721)^+} - m_{B^{*0}} - m_{\pi^+} = 262 \pm 3^{+1}_{-3}$ MeV which we adjusted by the π^+ mass.

 $B_1(5721)^+$ WIDTH

VALUE (MeV)	EVTS	DOCUMENT ID	TECN	COMMENT
31 \pm 6 OUR AVERAGE				Error includes scale factor of 1.1.
29.1 \pm 3.6 \pm 4.3	8K	AAIJ	15AB LHCb	$p\bar{p}$ at 7, 8 TeV
49 $^{+12}_{-10}$ $^{+2}_{-13}$		AALTONEN	14I CDF	$p\bar{p}$ at 1.96 TeV

 $B_1(5721)^+$ DECAY MODES

Mode	Fraction (Γ_i/Γ)
$\Gamma_1 B^{*0} \pi^+$	seen

 $B_1(5721)^+$ BRANCHING RATIOS

$\Gamma(B^{*0}\pi^+)/\Gamma_{\text{total}}$	EVTS	DOCUMENT ID	TECN	Γ_1/Γ
seen	8K	AAIJ	15AB LHCb	$p\bar{p}$ at 7, 8 TeV
seen		AALTONEN	14I CDF	$p\bar{p}$ at 1.96 TeV

 $B_1(5721)^+$ REFERENCES

AAIJ	15AB	JHEP 1504 024	R. Aaij <i>et al.</i>	(LHCb Collab.)
AALTONEN	14I	PR D90 012013	T. Aaltonen <i>et al.</i>	(CDF Collab.)

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