

$B_1(5721)^+$

$I(J^P) = \frac{1}{2}(1^+)$ Status: **
I, J, P need confirmation.

Quantum numbers shown are quark-model predictions.

$B_1(5721)^+$ MASS

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

VALUE (MeV)	DOCUMENT ID
5726.8^{+3.2}_{-4.0} OUR FIT	

$m_{B_1^+} - m_{B^{*0}}$

VALUE (MeV)	DOCUMENT ID	TECN	COMMENT
-------------	-------------	------	---------

402.0^{+3.2}_{-4.0} OUR FIT

402 ± 3⁺¹₋₃ ¹AALTONEN 14I CDF $\rho\bar{p}$ at 1.96 TeV

¹AALTONEN 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)	DOCUMENT ID	TECN	COMMENT
-------------	-------------	------	---------

49⁺¹²⁺²₋₁₀₋₁₃ AALTONEN 14I CDF $\rho\bar{p}$ at 1.96 TeV

$B_1(5721)^+$ DECAY MODES

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

$B_1(5721)^+$ BRANCHING RATIOS

$\Gamma(B^{*0} \pi^+)/\Gamma_{\text{total}}$	DOCUMENT ID	TECN	COMMENT	Γ_1/Γ
seen	AALTONEN	14I	CDF	$\rho\bar{p}$ at 1.96 TeV

$B_1(5721)^+$ REFERENCES

AALTONEN 14I PR D90 012013 T. Aaltonen *et al.* (CDF Collab.)