

$B_1(5721)^0$

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

Quantum numbers shown are quark-model predictions.

$B_1(5721)^0$ MASS

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

VALUE (MeV)	DOCUMENT ID
5720.7 ± 2.7 OUR FIT	

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

VALUE (MeV)	DOCUMENT ID	TECN	COMMENT
441.5 ± 2.7 OUR FIT			
441.5 ± 2.4 ± 1.3	ABAZOV	07T D0	$\rho\bar{p}$ at 1.96 TeV

$B_1(5721)^0$ DECAY MODES

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

$B_1(5721)^0$ BRANCHING RATIOS

$\Gamma(B^{*+} \pi^-)/\Gamma_{\text{total}}$	DOCUMENT ID	TECN	COMMENT	Γ_1/Γ
dominant	¹ ABAZOV	07T D0	$\rho\bar{p}$ at 1.96 TeV	

¹ Observed in $B_1^0 \rightarrow B^{*+} \pi^-$ with $B^{*+} \rightarrow B^+ \gamma$ and $B^+ \rightarrow J/\psi \pi^+$.

$B_1(5721)^0$ REFERENCES

ABAZOV	07T	PRL 99 172001	V.M. Abazov <i>et al.</i>	(D0 Collab.)
--------	-----	---------------	---------------------------	--------------