

$B(5970)^+$ $I(J^P) = ?(?^?)$ Status: ** **$B(5970)^+$ MASS**OUR FIT uses m_{B^0} and $m_{B(5970)^+} - m_{B^0}$ to determine $m_{B(5970)^+}$.

VALUE (MeV)	DOCUMENT ID
5961 ± 13 OUR FIT	

 $m_{B(5970)^+} - m_{B^0}$

VALUE (MeV)	DOCUMENT ID	TECN	COMMENT
681 ± 13 OUR FIT			
$681 \pm 5 \pm 12$	¹ AALTONEN 14l	CDF	$p\bar{p}$ at 1.96 TeV

¹ AALTONEN 14l reports $m_{B(5970)^+} - m_{B^0} - m_{\pi^+} = 541 \pm 5 \pm 12$ MeV which we adjusted by the π^+ mass.

 $B(5970)^+$ WIDTH

VALUE (MeV)	DOCUMENT ID	TECN	COMMENT
$60^{+30}_{-20} \pm 40$	AALTONEN 14l	CDF	$p\bar{p}$ at 1.96 TeV

 $B(5970)^+$ DECAY MODES

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

 $B(5970)^+$ BRANCHING RATIOS

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

 $B(5970)^+$ REFERENCES

AALTONEN 14l	PR D90 012013	T. Aaltonen <i>et al.</i>	(CDF Collab.)
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