

$\Sigma_b(6097)^+$ $J^P = ??$

Status: ***

 $\Sigma_b(6097)^+$ MASS

VALUE (MeV)	DOCUMENT ID	TECN	COMMENT
$6095.8 \pm 1.7 \pm 0.4$	¹ AAIJ	19A	LHCB pp at 7, 8 TeV
¹ Measured using fully reconstructed $\Lambda_b^0 \rightarrow \Lambda_c^+ \pi^-$ and $\Lambda_c^+ \rightarrow p K^- \pi^+$ decays.			

 $m_{\Sigma_b(6097)^\pm} - m_{\Sigma_b(6097)^-}$

VALUE	DOCUMENT ID	TECN	COMMENT
$-2.2 \pm 2.4 \pm 0.3$ MeV	¹ AAIJ	19A	LHCB pp at 7, 8 TeV
¹ Measured using fully reconstructed $\Lambda_b^0 \rightarrow \Lambda_c^+ \pi^-$ and $\Lambda_c^+ \rightarrow p K^- \pi^+$ decays.			

 $\Sigma_b(6097)^+$ WIDTH

VALUE (MeV)	DOCUMENT ID	TECN	COMMENT
$31.0 \pm 5.5 \pm 0.7$	¹ AAIJ	19A	LHCB pp at 7, 8 TeV
¹ Measured using fully reconstructed $\Lambda_b^0 \rightarrow \Lambda_c^+ \pi^-$ and $\Lambda_c^+ \rightarrow p K^- \pi^+$ decays.			

 $\Sigma_b(6097)^+$ DECAY MODES

Mode	Fraction (Γ_i/Γ)
$\Gamma_1 \Lambda_b \pi^+ \times B(b \rightarrow \Sigma_b(6097)^+)$	seen

 $\Sigma_b(6097)^+$ BRANCHING RATIOS

$\Gamma(\Lambda_b \pi^+ \times B(b \rightarrow \Sigma_b(6097)^+))/\Gamma_{\text{total}}$	Γ_1/Γ		
VALUE	DOCUMENT ID	TECN	COMMENT
seen	AAIJ	19A	LHCB pp at 7, 8 TeV

 $\Sigma_b(6097)^+$ REFERENCES

AAIJ	19A	PRL 122 012001	R. Aaij <i>et al.</i>	(LHCb Collab.)
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