

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

Status: ***

 $\Sigma_b(6097)^-$ MASS

VALUE (MeV)	DOCUMENT ID	TECN	COMMENT
6098.0±1.7±0.5	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
28.9±4.2±0.9	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
seen	

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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