

$\Sigma_b(6097)^-$

$J^P = ??$

Status: \*\*\*

**$\Sigma_b(6097)^-$  MASS**

VALUE (MeV)	DOCUMENT ID	TECN	COMMENT
<b><math>6098.0 \pm 1.7 \pm 0.5</math></b>	<sup>1</sup> AAIJ	19A LHCB	$pp$ at 7, 8 TeV
<sup>1</sup> 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
<b><math>28.9 \pm 4.2 \pm 0.9</math></b>	<sup>1</sup> AAIJ	19A LHCB	$pp$ at 7, 8 TeV
<sup>1</sup> 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 ( $\Gamma_i/\Gamma$ )
$\Gamma_1 \Lambda_b \pi^- \times B(b \rightarrow \Sigma_b(6097)^-)$	seen

**$\Sigma_b(6097)^-$  BRANCHING RATIOS**

$\Gamma(\Lambda_b \pi^- \times B(b \rightarrow \Sigma_b(6097)^-))/\Gamma_{\text{total}}$	$\Gamma_1/\Gamma$		
VALUE	DOCUMENT ID	TECN	COMMENT
<b>seen</b>	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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