

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

Status: \*\*\*

 $\Sigma_b(6097)^+$  MASS

VALUE (MeV)	DOCUMENT ID	TECN	COMMENT
<b>6095.8 ± 1.7 ± 0.4</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.			

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

VALUE	DOCUMENT ID	TECN	COMMENT
-2.2 +2.4 -0.3 MeV	<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>31.0 ± 5.5 ± 0.7</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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