

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

Status: \*\*\*

 $\Sigma_b(6097)^+$  MASS

VALUE (MeV)	DOCUMENT ID	TECN	COMMENT
$6095.8 \pm 1.7 \pm 0.4$	<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
$-2.2 \pm 2.4 \pm 0.3$ 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
$31.0 \pm 5.5 \pm 0.7$	<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 ( $\Gamma_i/\Gamma$ )
$\Gamma_1 \quad \Lambda_b \pi^+ \times B(b \rightarrow \Sigma_b(6097)^+)$	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
seen	AAIJ	19A	LHCB $pp$ at 7, 8 TeV

 $\Sigma_b(6097)^+$  REFERENCESAAIJ      19A    PRL 122 012001      R. Aaij *et al.*      (LHCb Collab.)