$\Sigma_b(6097)^-$

$J^P = ?^?$ 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 $\Lambda_b^0 \to \Lambda_c^+ \pi^-$ and $\Lambda_c^+ \to pK^-\pi^+$ 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 $\Lambda_b^0 \to \Lambda_c^+ \pi^-$ and $\Lambda_c^+ \to pK^-\pi^+$ decays.

$\Sigma_b(6097)^-$ DECAY MODES

	Mode	Fraction (Γ_i/Γ)
Γ_1	$\Lambda_b \pi^- \times$ B($b \to \Sigma_b(6097)^-$)	seen

$\Sigma_b(6097)^-$ BRANCHING RATIOS

$\Gamma(\Lambda_b \pi^- \times B(b \to \Sigma_b(6097)^-))/\Gamma_{total}$ — 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 et al. (LHCb Collab.)