

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

Status: ***

NODE=B182

 $\Sigma_b(6097)^-$ MASS

NODE=B182M

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.			

NODE=B182M

NODE=B182M;LINKAGE=A

 $\Sigma_b(6097)^-$ WIDTH

NODE=B182W

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.			

NODE=B182W

NODE=B182W;LINKAGE=A

 $\Sigma_b(6097)^-$ DECAY MODES

NODE=B182215;NODE=B182

Mode	Fraction (Γ_i/Γ)
$\Gamma_1 \Lambda_b \pi^- \times B(b \rightarrow \Sigma_b(6097)^-)$	seen

DESIG=1

 $\Sigma_b(6097)^-$ BRANCHING RATIOS

NODE=B182220

VALUE	DOCUMENT ID	TECN	COMMENT	Γ_1/Γ
seen	AAIJ	19A LHCB	pp at 7, 8 TeV	

NODE=B182R01

NODE=B182R01

 $\Sigma_b(6097)^-$ REFERENCES

NODE=B182

AAIJ 19A PRL 122 012001 R. Aaij *et al.* (LHCb Collab.)

REFID=59550