$$\boxed{\Xi_b'(5935)^-} \qquad J^P = \tfrac{1}{2}^+ \qquad \text{Status: } ✳✳✳$$

$\Xi_b'(5935)^-$ MASS

VALUE (MeV)	DOCUMENT ID	TECN	COMMENT
5935.02±0.02±0.05	[1] AAIJ 15H	LHCB	pp at 7, 8 TeV

[1] Not independent of the mass difference measurement below. Observed in $\Xi_b^0 \pi^-$ channel with $\Xi_b^0 \to \Xi_c^+ \pi^-$ and $\Xi_c^+ \to p K^- \pi^+$.

$m_{\Xi_b'(5935)^-} - m_{\Xi_b^0} - m_{\pi^-}$

VALUE (MeV)	DOCUMENT ID	TECN	COMMENT
3.653±0.018±0.006	[2] AAIJ 15H	LHCB	pp at 7, 8 TeV

[2] Observed in $\Xi_b^0 \pi^-$ channel with $\Xi_b^0 \to \Xi_c^+ \pi^-$ and $\Xi_c^+ \to p K^- \pi^+$.

$\Xi_b'(5935)^-$ WIDTH

VALUE (MeV)	CL%	DOCUMENT ID	TECN	COMMENT
<0.08	95	[3] AAIJ 15H	LHCB	pp at 7, 8 TeV

[3] Observed in $\Xi_b^0 \pi^-$ channel with $\Xi_b^0 \to \Xi_c^+ \pi^-$ and $\Xi_c^+ \to p K^- \pi^+$.

$\Xi_b'(5935)^-$ DECAY MODES

	Mode	Fraction (Γ_i/Γ)
Γ_1	$\Xi_b^0 \pi^- \times \mathrm{B}(\overline{b} \to \Xi_b'(5935)^-)/\mathrm{B}(\overline{b} \to \Xi_b^0)$	(11.8 ± 1.8) %

$\Xi_b'(5935)^-$ BRANCHING RATIOS

$\Gamma\big(\Xi_b^0 \pi^- \times \mathrm{B}(\overline{b} \to \Xi_b'(5935)^-)/\mathrm{B}(\overline{b} \to \Xi_b^0)\big)/\Gamma_{\text{total}}$ $\qquad\qquad$ Γ_1/Γ

VALUE	DOCUMENT ID	TECN	COMMENT
0.118±0.017±0.007	[4] AAIJ 15H	LHCB	pp at 7, 8 TeV

[4] Observed in $\Xi_b^0 \pi^-$ channel with $\Xi_b^0 \to \Xi_c^+ \pi^-$ and $\Xi_c^+ \to p K^- \pi^+$.

$\Xi_b'(5935)^-$ REFERENCES

AAIJ 15H PRL 114 062004 R. Aaij *et al.* (LHCb Collab.)