$\Xi_b'(5935)$ 

 $J^P = \frac{1}{2}$  Status: \*\*\*

#### $\Xi_{b}^{\prime}(5935)^{-}$ MASS

VALUE (MeV)

DOCUMENT ID TECN COMMENT

 $5935.02 \pm 0.02 \pm 0.05$ 

\_\_\_ 15н LHCB *pp* at 7, 8 TeV

<sup>1</sup> 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)

 $3.653 \pm 0.018 \pm 0.006$ 

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 $^{2}\, {\rm Observed}\,\, {\rm in}\,\, \Xi_{\,b}^{0}\, \pi^{-}\,\, {\rm channel}\,\, {\rm with}\,\, \Xi_{\,b}^{0}\, \to\,\, \Xi_{\,c}^{+}\, \pi^{-}\,\, {\rm and}\,\, \Xi_{\,c}^{+}\, \to\,\, p\, K^{-}\, \pi^{+}.$ 

### $\Xi_{h}^{\prime}(5935)^{-}$ WIDTH

 VALUE (MeV)
 CL%
 DOCUMENT ID
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 <0.08</td>
 95
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 $^3$  Observed in  $\Xi_b^0\pi^-$  channel with  $\Xi_b^0\to\Xi_c^+\pi^-$  and  $\Xi_c^+\to pK^-\pi^+$ .

#### $\Xi_{b}'(5935)^{-}$ DECAY MODES

Fraction  $(\Gamma_i/\Gamma)$ 

$$\overline{\Gamma_{1} \qquad \overline{\Xi}_{b}^{0} \pi^{-} \times \mathsf{B}(\overline{b} \to \Xi_{b}^{\prime})} \\
= \underline{\Xi}_{b}^{\prime} (5935)^{-})/\mathsf{B}(\overline{b} \to \Xi_{b}^{0})$$

 $(11.8\pm1.8)$  %

## $\Xi'_{h}(5935)^{-}$ BRANCHING RATIOS

 $\Gamma_1/\Gamma$ 

 $^{4}\, \text{Observed in } \Xi_{b}^{0}\, \pi^{-} \text{ channel with } \Xi_{b}^{0} \to \Xi_{c}^{+}\, \pi^{-} \text{ and } \Xi_{c}^{+} \to \ p\, \mathcal{K}^{-}\, \pi^{+}.$ 

#### $\equiv_{h}^{\prime}(5935)^{-}$ REFERENCES

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(LHCb Collab.)

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