



$$J^P = \frac{1}{2}^+$$

OMITTED FROM SUMMARY TABLE

Ξ_{bc}^0 DECAY MODES

Mode	Fraction (Γ_i/Γ)	Confidence level
$\Gamma_1 \quad D^0 p K^- \times B(b \rightarrow \Xi_{bc}^0)/B(b \rightarrow \Lambda_b)$	$< 1.4 \times 10^{-5}$	95%

Ξ_{bc}^0 BRANCHING RATIOS

$$\Gamma(D^0 p K^- \times B(b \rightarrow \Xi_{bc}^0)/B(b \rightarrow \Lambda_b))/\Gamma_{\text{total}} \quad \Gamma_1/\Gamma$$

VALUE	CL%	DOCUMENT ID	TECN	COMMENT
$< 1.4 \times 10^{-5}$	95	1,2 AAIJ	20AMLHCB	pp at 13 TeV

¹ AAIJ 20AM reports upper limits for $[\Gamma(\Xi_{bc}^0 \rightarrow D^0 p K^- \times B(b \rightarrow \Xi_{bc}^0)/B(b \rightarrow \Lambda_b))/\Gamma_{\text{total}}] / [B(\Lambda_b^0 \rightarrow p D^0 K^-)] < 3.0 \times 10^{-1} - 1.7 \times 10^{-2}$ for the considered Ξ_{bc}^0 mass and lifetime hypotheses ranging from 6.7 to 7.2 GeV and from 100 to 500 fs. We use the 3.0×10^{-1} limit for the quoted result.

² AAIJ 20AM reports $[\Gamma(\Xi_{bc}^0 \rightarrow D^0 p K^- \times B(b \rightarrow \Xi_{bc}^0)/B(b \rightarrow \Lambda_b))/\Gamma_{\text{total}}] / [B(\Lambda_b^0 \rightarrow p D^0 K^-)] < 3.0 \times 10^{-1}$ which we multiply by our best value $B(\Lambda_b^0 \rightarrow p D^0 K^-) = 4.6 \times 10^{-5}$.

Ξ_{bc}^0 REFERENCES

AAIJ	20AM JHEP 2011 095	R. Aaij <i>et al.</i>	(LHCb Collab.)
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