Ξ_{bc}^0

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

OMITTED FROM SUMMARY TABLE

Ξ_{bc}^0 DECAY MODES

	Mode	Fraction (Γ_i/Γ)	Confidence level
Γ_1	$D^0 p K^- \times$B($b \to \ \Xi_{bc}^0$)/B($b \to \ \Lambda_b$)	$<1.4 \times 10^{-5}$	95%

Ξ_{bc}^0 BRANCHING RATIOS

$\Gamma(D^0 p K^- \times$B$(b \to \Xi_{bc}^0)$/B$(b \to \Lambda_b))/\Gamma_{\text{total}}$ Γ_1/Γ

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

[1] AAIJ 20AM reports upper limits for [$\Gamma(\Xi_{bc}^0 \to \ D^0 p K^- \times$B$(b \to \ \Xi_{bc}^0)$/B$(b \to \ \Lambda_b)\ )$/ Γ_{total}] / [B($\Lambda_b^0 \to \ p D^0 K^-$)] $<\ 3.0 \times 10^{-1}$–1.7×10^{-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 [$\Gamma(\Xi_{bc}^0 \to \ D^0 p K^- \times$B$(b \to \ \Xi_{bc}^0)$/B$(b \to \ \Lambda_b)\ )/\Gamma_{\text{total}}$] / [B($\Lambda_b^0 \to p D^0 K^-$)] $<\ 3.0 \times 10^{-1}$ which we multiply by our best (shown rounded) value B($\Lambda_b^0 \to p D^0 K^-$) $= 4.6 \times 10^{-5}$.

Ξ_{bc}^0 REFERENCES

AAIJ 20AM JHEP 2011 095 R. Aaij *et al.* (LHCb Collab.)