

$\Omega_c(3185)^0$ $I(J^P) = ?(??)$ Status: *** $\Omega_c(3185)^0$ MASS

VALUE (MeV)	EVTS	DOCUMENT ID	TECN	COMMENT
$3185 \pm 1.7^{+7.4}_{-0.9} \pm 0.2$	12k	¹ AAIJ	23AS LHCB	<i>pp</i> at 7, 8, 13 TeV

¹ The third uncertainty is due to the uncertainty in the Ξ_c^+ mass, taken to be the PDG 22 fit result 2467.71 ± 0.23 MeV.

 $\Omega_c(3185)^0$ WIDTH

VALUE (MeV)	EVTS	DOCUMENT ID	TECN	COMMENT
$50 \pm 7^{+10}_{-20}$	12k	AAIJ	23AS LHCB	<i>pp</i> at 7, 8, 13 TeV

 $\Omega_c(3185)^0$ DECAY MODES

Mode	Fraction (Γ_i/Γ)
$\Gamma_1 \quad \Xi_c^+ K^-$	seen

 $\Omega_c(3185)^0$ BRANCHING RATIOS

$\Gamma(\Xi_c^+ K^-)/\Gamma_{\text{total}}$	Γ_1/Γ			
VALUE	EVTS	DOCUMENT ID	TECN	COMMENT
seen	12k	¹ AAIJ	23AS LHCB	<i>pp</i> at 7, 8, 13 TeV

¹ AAIJ 23AS report a significance of 12σ .

 $\Omega_c(3185)^0$ REFERENCES

AAIJ	23AS PRL 131 131902	R. Aaij <i>et al.</i>	(LHCb Collab.)
PDG	22 PTEP 2022 083C01	R.L. Workman <i>et al.</i>	(PDG Collab.)