Ξ_{cc}^{++}

$I(J^P) = ?(?^?)$ Status: ***

A nerrow peak seen in 13 TeV pp collisions in $\Lambda_c^+ K^- 2\pi^+$ with a significance of 12 standard deviations. Supported by measurements at 8 TeV by the same collaboration.

Ξ_{cc}^{++} MASS

VALUE (MeV)	*EVTS*	*DOCUMENT ID*		*TECN*	*COMMENT*
3621.40±0.72±0.27±0.14	313	[1] AAIJ	17BC	LHCB	pp at 13 TeV

[1] The third error in AAIJ 17BC value is from the uncertainty of the Λ_c^+ mass. The width of the signal is 6.6 ± 0.8 MeV, consistent with the experimental resolution.

Ξ_{cc}^{++} DECAY MODES

	Mode	Fraction (Γ_i/Γ)
Γ_1	$\Lambda_c^+ K^- \pi^+ \pi^+$	seen

$\Gamma(\Lambda_c^+ K^- \pi^+ \pi^+)/\Gamma_{\text{total}}$ Γ_1/Γ

VALUE	*DOCUMENT ID*		*TECN*	*COMMENT*
seen	AAIJ	17BC	LHCB	pp at 13 TeV

Ξ_{cc}^{++} REFERENCES

AAIJ 17BC PRL 119 112001 R. Aaij *et al.* (LHCb Collab.)