

DOUBLY CHARMED BARYONS

($C = +2$)

$$\Xi_{cc}^{++} = u c c, \Xi_{cc}^{+} = d c c, \Omega_{cc}^{+} = s c c$$

Ξ_{cc}^{++}

$I(J^P) = ?(?^?)$

Mass $m = 3621.6 \pm 0.4 \text{ MeV}$
Mean life $\tau = (256 \pm 27) \times 10^{-15} \text{ s}$

Ξ_{cc}^{++} DECAY MODES	Fraction (Γ_i/Γ)	Confidence level	p (MeV/c)
$\Lambda_c^+ K^- \pi^+ \pi^+$	DEFINED AS 1		880
$\Xi_c^+ \pi^+, \Xi_c^+ \rightarrow p K^- \pi^+$	0.0022 ± 0.0006		—
$\Xi_c^{'+} \pi^+, \Xi_c^{'+} \rightarrow \Xi_c^+ \gamma, \Xi_c^+ \rightarrow p K^- \pi^+$	0.0031 ± 0.0010		—
$D^+ p K^- \pi^+$	<0.017	90%	562