

# DOUBLY CHARMED BARYONS ( $C = +2$ )

$$\Xi_{cc}^{++} = ucc, \Xi_{cc}^+ = dcc, \Omega_{cc}^+ = scc$$

 $\Xi_{cc}^{++}$ 

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

Mass  $m = 3621.6 \pm 0.4$  MeV

Mean life  $\tau = (256 \pm 27) \times 10^{-15}$  s

$\Xi_{cc}^{++}$ DECAY MODES	Fraction ( $\Gamma_i/\Gamma$ )	Confidence level	$p$ (MeV/c)
$\Lambda_c^+ K^- \pi^+ \pi^+$	<b>DEFINED AS 1</b>		880
$\Xi_c^+ \pi^+, \Xi_c^+ \rightarrow p K^- \pi^+$	$0.0022 \pm 0.0006$		—
$\Xi_c^{'+} \pi^+, \Xi_c^{'+} \rightarrow \Xi_c^+ \gamma, \Xi_c^+ \rightarrow p K^- \pi^+$	$0.0031 \pm 0.0009$		—
$D^+ p K^- \pi^+$	$<0.017$	90%	562