



$$I(J^P) = \frac{1}{2}(\frac{1}{2}^+) \text{ Status: } ***$$

The $\Xi_c^{'+}$ and Ξ_c^0 presumably complete the SU(3) sextet whose other members are the Σ_c^{++} , Σ_c^+ , Σ_c^0 , and Ω_c^0 : see Fig. 2 in the note on Charmed Baryons just before the the Λ_c^+ Listings. The quantum numbers given above come from this presumption but have not been measured.

$\Xi_c^{'+}$ MASS

The mass is obtained from the mass-difference measurement that follows.

VALUE (MeV)	DOCUMENT ID
2574.1±3.3 OUR FIT	

		$m_{\Xi_c^{'+}} - m_{\Xi_c^+}$			
VALUE (MeV)	EVTS	DOCUMENT ID	TECN	COMMENT	
107.8±3.0 OUR FIT					
107.8±1.7±2.5	25	JESSOP	99	CLE2	$e^+ e^- \approx \Upsilon(4S)$

$\Xi_c^{'+}$ DECAY MODES

The $m_{\Xi_c^{'+}} - m_{\Xi_c^+}$ mass difference is too small for any strong decay to occur.

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

$\Xi_c^{'+}$ REFERENCES

JESSOP	99	PRL 82 492	C.P. Jessop+	(CLEO Collab.)
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