



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

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. 3 in the Note on Charmed Baryons just before 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.

<u>VALUE (MeV)</u>	<u>DOCUMENT ID</u>
2575.7±3.1 OUR FIT	

$\Xi_c^{'+} - \Xi_c^+$ MASS DIFFERENCE

<u>VALUE (MeV)</u>	<u>EVTS</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
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 $\Xi_c^{'+} - \Xi_c^+$ mass difference is too small for any strong decay to occur.

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

$\Xi_c^{'+}$ REFERENCES

JESSOP	99	PRL 82 492	C.P. Jessop <i>et al.</i>	(CLEO Collab.)
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