



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

The $\Xi_c'^+$ and $\Xi_c'^0$ 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 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
2575.8±3.1 OUR FIT	

$\Xi_c'^+$ - Ξ_c^+ MASS DIFFERENCE

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 $\Xi_c'^+ - \Xi_c^+$ 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 <i>et al.</i>	(CLEO Collab.)
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