$$=_{c}^{\prime+}$$

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

The  $\Xi_c^{\prime+}$  and  $\Xi_c^{\prime0}$  presumably complete the SU(3) sextet whose other members are the  $\Sigma_c^{++}$ ,  $\Sigma_c^{+}$ ,  $\Sigma_c^{0}$ , and  $\Omega_c^{0}$ : see Fig. 3 in the Note on Charmed Baryons just before the the  $\Lambda_c^{+}$  Listings. The quantum numbers given above come from this presumption but have not been measured.

## Ξ'+ MASS

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

VALUE (MeV)

DOCUMENT ID

2574.1±3.3 OUR FIT

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

VALUE (MeV) EVTS

LVI

DOCUMENT ID

TECN COMMENT

107.8±3.0 OUR FIT 107.8±1.7±2.5

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JESSOP

99 CLE2  $e^+e^-\approx \Upsilon(4S)$ 

## $\Xi_c^{\prime+}$ DECAY MODES

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

Mode Fraction  $(\Gamma_i/\Gamma)$   $\Gamma_1 = \Xi_c^+ \gamma$  seen

## **=**'+ REFERENCES

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(CLEO Collab.)

Created: 5/30/2003 11:28