$$\Xi_c^{\prime+}$$

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

The $\Xi_c^{\prime+}$ and $\Xi_c^{\prime0}$ presumably complete the SU(3) sextet whose other members are the 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.

Ξ'+ MASS

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

VALUE (MeV)

DOCUMENT ID

2575.6±3.1 OUR FIT

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

VALUE (MeV) EVTS DOCUMENT ID TECN COMMENT

107.8±3.0 OUR FIT 107.8±1.7±2.5

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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.

 $\begin{array}{c|c} \operatorname{Mode} & \operatorname{Fraction} \left(\Gamma_i / \Gamma \right) \\ \hline \Gamma_1 & \Xi_c^+ \gamma & \operatorname{seen} \end{array}$

='+ REFERENCES

JESSOP 99 PRL 82 492

C.P. Jessop et al.

(CLEO Collab.)

Created: 6/1/2009 14:19