$$=_{c}^{\prime 0}$$

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

The $\Xi_c^{\prime 0}$ and $\Xi_c^{\prime +}$ presumably complete the SU(3) sextet whose other members are the Σ_c^{++} , Σ_c^{+} , Σ_c^{0} , and Ω_c^{0} : see Fig. 5 in the "Quark Model" review. The quantum numbers given above come from this presumption but have not been measured.

Ξ'0 MASS

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

VALUE (MeV)

DOCUMENT ID

2578.7±0.5 OUR FIT

$=_c^{\prime 0} - =_c^{0}$ MASS DIFFERENCE

VALUE (MeV)	EVTS	DOCUMENT ID		TECN	COMMENT		
108.3±0.4 OUR FIT							
$108.3 \pm 0.1 \pm 0.4$	11.5k	YELTON	16	BELL	e^+e^- , γ regions		
• • • We do not use the following data for averages, fits, limits, etc. • •							
$107.0\pm 1.4\pm 2.5$	28	JESSOP	99	CLE2	$e^+e^- \approx \Upsilon(4S)$		

$\equiv_c^{\prime 0}$ DECAY MODES

The $\Xi_c^{\prime 0}$ - Ξ_c^0 mass difference is too small for any strong decay to occur.

	Mode	Fraction (Γ_i/Γ)
Γ ₁	$\equiv_c^0 \gamma$	seen

='0 REFERENCES

YELTON	16	PR D94 052011	J. Yelton <i>et al.</i>	(BELLE Collab.)
JESSOP	99	PRL 82 492	C.P. Jessop <i>et al.</i>	(CLEO Collab.)

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