



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

The Ξ_c^{*0} and Ξ_c^{*+} 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. The quantum numbers given above come from this presumption but have not been measured.

Ξ_c^{*0} MASS

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

<u>VALUE (MeV)</u>	<u>DOCUMENT ID</u>
2579.2±0.5 OUR FIT	

$\Xi_c^{*0} - \Xi_c^0$ MASS DIFFERENCE

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

Ξ_c^{*0} DECAY MODES

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

Mode	Fraction (Γ_i/Γ)
$\Gamma_1 \quad \Xi_c^0 \gamma$	seen

Ξ_c^{*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.)