

$\Xi_c(2790)$ 

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

A peak seen in the  $\Xi_c' \pi$  mass spectrum. The simplest assignment, based on the mass, width, and decay mode, is that this belongs in the same SU(4) multiplet as the  $\Lambda(1405)$  and the  $\Lambda_c(2595)^+$ , but the spin and parity have not been measured.

 **$\Xi_c(2790)$  MASSES**

The masses are obtained from the mass-difference measurements that follow.

 **$\Xi_c(2790)^+$  MASS**

<u>VALUE (MeV)</u>	<u>DOCUMENT ID</u>
<b>2789.1 ± 3.2 OUR FIT</b>	

 **$\Xi_c(2790)^0$  MASS**

<u>VALUE (MeV)</u>	<u>DOCUMENT ID</u>
<b>2791.9 ± 3.3 OUR FIT</b>	

 **$\Xi_c(2790) - \Xi_c$  MASS DIFFERENCES** **$m_{\Xi_c(2790)^+} - m_{\Xi_c^0}$** 

<u>VALUE (MeV)</u>	<u>EVTS</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
<b>318.2 ± 3.2 OUR FIT</b>				
<b>318.2 ± 1.3 ± 2.9</b>	18	CSORNA	01	CLEO $e^+ e^- \approx \Upsilon(4S)$

 **$m_{\Xi_c(2790)^0} - m_{\Xi_c^+}$** 

<u>VALUE (MeV)</u>	<u>EVTS</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
<b>324.0 ± 3.3 OUR FIT</b>				
<b>324.0 ± 1.3 ± 3.0</b>	14	CSORNA	01	CLEO $e^+ e^- \approx \Upsilon(4S)$

 **$\Xi_c(2790)$  WIDTHS** **$\Xi_c(2790)^+$  WIDTH**

<u>VALUE (MeV)</u>	<u>CL%</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
<b>&lt;15</b>	90	CSORNA	01	CLEO $e^+ e^- \approx \Upsilon(4S)$

 **$\Xi_c(2790)^0$  WIDTH**

<u>VALUE (MeV)</u>	<u>CL%</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
<b>&lt;12</b>	90	CSORNA	01	CLEO $e^+ e^- \approx \Upsilon(4S)$

 **$\Xi_c(2790)$  DECAY MODES**

Mode	Fraction ( $\Gamma_j/\Gamma$ )
$\Gamma_1 \quad \Xi_c' \pi$	seen

 **$\Xi_c(2790)$  REFERENCES**

CSORNA	01	PRL 86 4243	S.E. Csorna <i>et al.</i>	(CLEO Collab.)
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