

$\Sigma_c(2800)$ $I(J^P) = 1(?)$ Status: ***Seen in the $\Lambda_c^+ \pi^+$, $\Lambda_c^+ \pi^0$, and $\Lambda_c^+ \pi^-$ mass spectra. **$\Sigma_c(2800)$ MASSES**

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

 $\Sigma_c(2800)^{++}$ MASS

<u>VALUE (MeV)</u>	<u>DOCUMENT ID</u>
2801^{+4}_{-6} OUR FIT	

 $\Sigma_c(2800)^{+}$ MASS

<u>VALUE (MeV)</u>	<u>DOCUMENT ID</u>
2792^{+14}_{-5} OUR FIT	

 $\Sigma_c(2800)^0$ MASS

<u>VALUE (MeV)</u>	<u>DOCUMENT ID</u>
2802^{+4}_{-7} OUR FIT	

 $\Sigma_c(2800)$ MASS DIFFERENCES **$m_{\Sigma_c(2800)^{++}} - m_{\Lambda_c^+}$**

<u>VALUE (MeV)</u>	<u>EVTS</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
514^{+4}_{-6} OUR FIT				

$514.5^{+3.4+2.8}_{-3.1-4.9}$	2810^{+1090}_{-775}	MIZUK	05	BELL $e^+ e^- \approx \gamma(4S)$
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 $m_{\Sigma_c(2800)^{+}} - m_{\Lambda_c^+}$

<u>VALUE (MeV)</u>	<u>EVTS</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
505^{+14}_{-5} OUR FIT				

$505.4^{+5.8+12.4}_{-4.6-2.0}$	1540^{+1750}_{-1050}	MIZUK	05	BELL $e^+ e^- \approx \gamma(4S)$
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 $m_{\Sigma_c(2800)^0} - m_{\Lambda_c^+}$

<u>VALUE (MeV)</u>	<u>EVTS</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
515^{+4}_{-7} OUR FIT				

$515.4^{+3.2+2.1}_{-3.1-6.0}$	2240^{+1300}_{-740}	MIZUK	05	BELL $e^+ e^- \approx \gamma(4S)$
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$\Sigma_c(2800)$ WIDTHS

$\Sigma_c(2800)^{++}$ WIDTH

VALUE (MeV)	EVTS	DOCUMENT ID	TECN	COMMENT
75⁺¹⁸⁺¹²₋₁₃₋₁₁	2810^{+1090}_{-775}	MIZUK	05	BELL $e^+ e^- \approx \gamma(4S)$

$\Sigma_c(2800)^+$ WIDTH

VALUE (MeV)	EVTS	DOCUMENT ID	TECN	COMMENT
62⁺³⁷⁺⁵²₋₂₃₋₃₈	1540^{+1750}_{-1050}	MIZUK	05	BELL $e^+ e^- \approx \gamma(4S)$

$\Sigma_c(2800)^0$ WIDTH

VALUE (MeV)	EVTS	DOCUMENT ID	TECN	COMMENT
61⁺¹⁸⁺²²₋₁₃₋₁₃	2240^{+1300}_{-740}	MIZUK	05	BELL $e^+ e^- \approx \gamma(4S)$

$\Sigma_c(2800)$ DECAY MODES

Mode	Fraction (Γ_i/Γ)
$\Gamma_1 \Lambda_c^+ \pi$	seen

$\Sigma_c(2800)$ REFERENCES

MIZUK 05 PRL 94 122002 R. Mizuk *et al.* (BELLE Collab.)