

$\Lambda_c(2910)^+$ $I(J^P) = ?(??)$ Status: *

OMITTED FROM SUMMARY TABLE

A candidate heavy quark symmetry doublet partner to the $\Lambda_c(2940)$.
Further study is needed to confirm whether this state is an excited
 Λ_c or Σ_c .

 $\Lambda_c(2910)^+$ MASS

VALUE (MeV)	EVTS	DOCUMENT ID	TECN	COMMENT
2913.8±5.6±3.8	150	¹ LI	23E BELL	$\bar{B}^0 \rightarrow \Sigma_c(2455)^{0,++} \pi^\pm \bar{p}$

¹ LI 23E observes evidence for the $\Lambda_c(2910)^+$ at 4.2σ significance.

 $\Lambda_c(2910)^+$ WIDTH

VALUE (MeV)	EVTS	DOCUMENT ID	TECN	COMMENT
51.8±20.0±18.8	150	¹ LI	23E BELL	$\bar{B}^0 \rightarrow \Sigma_c(2455)^{0,++} \pi^\pm \bar{p}$

¹ LI 23E observes evidence for the $\Lambda_c(2910)^+$ at 4.2σ significance.

 $\Lambda_c(2910)^+$ DECAY MODES

Mode	Fraction (Γ_i/Γ)
$\Gamma_1 \quad \Sigma_c(2455)^0 \pi^+$	seen
$\Gamma_2 \quad \Sigma_c(2455)^{++} \pi^-$	seen

 $\Lambda_c(2910)^+$ BRANCHING RATIOS

$\Gamma(\Sigma_c(2455)^0 \pi^+)/\Gamma_{\text{total}}$	Γ_1/Γ
<u>VALUE</u>	<u>DOCUMENT ID</u> <u>TECN</u> <u>COMMENT</u>
seen	LI 23E BELL $\bar{B}^0 \rightarrow \Sigma_c(2455)^0 \pi^+ \bar{p}$

$\Gamma(\Sigma_c(2455)^{++} \pi^-)/\Gamma_{\text{total}}$	Γ_2/Γ
<u>VALUE</u>	<u>DOCUMENT ID</u> <u>TECN</u> <u>COMMENT</u>
seen	LI 23E BELL $\bar{B}^0 \rightarrow \Sigma_c(2455)^{++} \pi^- \bar{p}$

 $\Lambda_c(2910)^+$ REFERENCES

LI	23E	PRL 130 031901	Y.B. Li et al.	(BELLE Collab.)
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