

$\Lambda_c(2910)^+$

$I(J^P) = ?(?^?)$ 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
$2913.8 \pm 5.6 \pm 3.8$	150	¹ LI	23E BELL	$\overline{B}^0 \rightarrow \Sigma_c(2455)^{0,++} \pi^\pm \overline{p}$
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
$51.8 \pm 20.0 \pm 18.8$	150	¹ LI	23E BELL	$\overline{B}^0 \rightarrow \Sigma_c(2455)^{0,++} \pi^\pm \overline{p}$
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
VALUE	DOCUMENT ID	TECN	COMMENT	
seen	LI	23E BELL	$\overline{B}^0 \rightarrow \Sigma_c(2455)^0 \pi^+ \overline{p}$	
$\Gamma(\Sigma_c(2455)^{++} \pi^-)/\Gamma_{\text{total}}$				Γ_2/Γ
VALUE	DOCUMENT ID	TECN	COMMENT	
seen	LI	23E BELL	$\overline{B}^0 \rightarrow \Sigma_c(2455)^{++} \pi^- \overline{p}$	

$\Lambda_c(2910)^+$ REFERENCES

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