

$\Lambda_c(2860)^+$

$I(J^P) = 0(\frac{3}{2}^+)$ Status: ***

$\Lambda_c(2860)^+$ MASS

VALUE (MeV)	DOCUMENT ID	TECN	COMMENT
$2856.1^{+2.0}_{-1.7} \pm 0.5^{+1.1}_{-5.6}$	¹ AAIJ	17S	LHCB in $\Lambda_b^0 \rightarrow D^0 p \pi^-$

¹ The third AAIJ 17S uncertainty comes from modeling the resonant shape of the nearby $\Lambda_c(2880)^+$ and the background (non-resonant) amplitudes.

$\Lambda_c(2860)^+$ WIDTH

VALUE (MeV)	DOCUMENT ID	TECN	COMMENT
$67.6^{+10.1}_{-8.1} \pm 1.4^{+5.9}_{-20.0}$	¹ AAIJ	17S	LHCB in $\Lambda_b^0 \rightarrow D^0 p \pi^-$

¹ The third AAIJ 17S uncertainty comes from modeling the resonant shape of the nearby $\Lambda_c(2880)^+$ and the background (non-resonant) amplitudes.

$\Lambda_c(2860)^+$ DECAY MODES

Mode	Fraction (Γ_i/Γ)
$\Gamma_1 \quad D^0 p$	seen

$\Lambda_c(2860)^+$ BRANCHING RATIOS

$\Gamma(D^0 p)/\Gamma_{\text{total}}$				Γ_1/Γ
VALUE	DOCUMENT ID	TECN	COMMENT	
seen	AAIJ	17S	LHCB in $\Lambda_b^0 \rightarrow D^0 p \pi^-$	

$\Lambda_c(2860)^+$ REFERENCES

AAIJ	17S	JHEP 1705 030	R. Aaij <i>et al.</i>	(LHCb Collab.) JP
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