$P_{c\bar{c}s}(4338)^0$

$I(J^P) = 0(\frac{1}{2}^-)$ Status: *

AAIJ 23Q determines that spin-parity $J^P = 1/2^-$ is preferred, while spin-parity $J^P = 1/2^+$ is excluded at a 90% confidence level and spin $J = 3/2$ hypotheses are discarded.

$P_{c\bar{c}s}(4338)^0$ MASS

VALUE (MeV)	*EVTS*	*DOCUMENT ID*		*TECN*	*COMMENT*
4338.2±0.7±0.4	4.4k	AAIJ	23Q	LHCB	$B^- \to J/\psi \Lambda \overline{p}$

$P_{c\bar{c}s}(4338)^0$ WIDTH

VALUE (MeV)	*EVTS*	*DOCUMENT ID*		*TECN*	*COMMENT*
7.0±1.2±1.3	4.4k	AAIJ	23Q	LHCB	$B^- \to J/\psi \Lambda \overline{p}$

$P_{c\bar{c}s}(4338)^0$ DECAY MODES

	Mode	Fraction (Γ_i/Γ)
Γ_1	$J/\psi \Lambda$	seen
Γ_2	$\Lambda_c^+ D_s^-$	not seen

$P_{c\bar{c}s}(4338)^0$ BRANCHING RATIOS

$\Gamma(J/\psi \Lambda)/\Gamma_{\text{total}}$ Γ_1/Γ

VALUE	*EVTS*	*DOCUMENT ID*		*TECN*	*COMMENT*
seen	4.4k	AAIJ	23Q	LHCB	$B^- \to J/\psi \Lambda \overline{p}$

$\Gamma(\Lambda_c^+ D_s^-)/\Gamma_{\text{total}}$ Γ_2/Γ

VALUE	*DOCUMENT ID*		*TECN*	*COMMENT*
not seen	[1] AAIJ	25AK	LHCB	pp at 13 TeV

[1] An analysis of $\Lambda_b^0 \to \Lambda_c^+ D_s^- K^+ K^-$ decays, AAIJ 25AK reports $B(\Lambda_b^0 \to P_{c\bar{c}s}(4338)^0 K^+ K^-, P_{c\bar{c}s} \to \Lambda_c^+ D_s^-) / B(\Lambda_b^0 \to \Lambda_c^+ D_s^- K^+ K^-) < 0.12$ at 95% CL.

$P_{c\bar{c}s}(4338)^0$ REFERENCES

AAIJ	25AK	PR D112 052013	R. Aaij *et al.*	(LHCb Collab.)
AAIJ	23Q	PRL 131 031901	R. Aaij *et al.*	(LHCb Collab.) JP