$P_{c\bar{c}s}(4459)^0$

$I(J^P) = 0(?^?)$ Status: *

OMITTED FROM SUMMARY TABLE

$P_{c\bar{c}s}(4459)^0$ MASS

VALUE (MeV)	*EVTS*	*DOCUMENT ID*		*TECN*	*COMMENT*
4466 $^{+6}_{=5}$ OUR AVERAGE	Error includes scale factor of 1.8.				
4471.7±4.8±0.6	21	[1] ADACHI	25A	BELL	$\Upsilon(1S/2S) \to J/\psi\Lambda$ incl.
4458.8±2.9$^{+4.7}_{-1.1}$	1.8k	[2] AAIJ	21AO	LHCB	$\Xi_b^- \to J/\psi\Lambda K^-$

[1] ADACHI 25A sees evidence for the $P_{c\bar{c}s}(4459)$ at 2.8σ global significance.
[2] AAIJ 21AO sees evidence for the $P_{c\bar{c}s}(4459)$ at 3.1σ global significance.

$P_{c\bar{c}s}(4459)^0$ WIDTH

VALUE (MeV)	*EVTS*	*DOCUMENT ID*		*TECN*	*COMMENT*
19 $^{+\ 8}_{-\ 7}$ OUR AVERAGE					
22 ±13 ±3	21	[1] ADACHI	25A	BELL	$\Upsilon(1S/2S) \to J/\psi\Lambda$ incl.
17.3± 6.5$^{+8.0}_{-5.7}$	1.8k	[2] AAIJ	21AO	LHCB	$\Xi_b^- \to J/\psi\Lambda K^-$

[1] ADACHI 25A sees evidence for the $P_{c\bar{c}s}(4459)$ at 2.8σ global significance.
[2] AAIJ 21AO sees evidence for the $P_{c\bar{c}s}(4459)$ at 3.1σ global significance

$P_{c\bar{c}s}(4459)^0$ DECAY MODES

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

$P_{c\bar{c}s}(4459)^0$ BRANCHING RATIOS

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

VALUE	*EVTS*	*DOCUMENT ID*		*TECN*	*COMMENT*
seen	21	[1] ADACHI	25A	BELL	$\Upsilon(1S/2S) \to J/\psi\Lambda$ incl.
seen	1.8k	[2] AAIJ	21AO	LHCB	$\Xi_b^- \to J/\psi\Lambda K^-$

[1] ADACHI 25A sees evidence for the $P_{c\bar{c}s}(4459)$ at 2.8σ global significance.
[2] AAIJ 21AO sees evidence for the $P_{c\bar{c}s}(4459)$ at 3.1σ global significance.

$\Gamma(\Lambda_c^+ D_s^-)/\Gamma_{\text{total}}$ 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 $B(\Lambda_b^0 \to P_{c\overline{c}s}(4459)^0 K^+ K^-, P_{c\overline{c}s} \to \Lambda_c^+ D_s^-) / B(\Lambda_b^0 \to \Lambda_c^+ D_s^- K^+ K^-) < 0.20$ at 95% CL.

$P_{c\overline{c}s}(4459)^0$ REFERENCES

AAIJ	25AK PR D112 052013	R. Aaij *et al.*	(LHCb Collab.)
ADACHI	25A PRL 135 041901	I. Adachi *et al.*	(BELLE and BELLE II Collab.)
AAIJ	21AO SCIB 66 1278	R. Aaij *et al.*	(LHCb Collab.)