

$Z_c(4200)$

$I^G(J^{PC}) = 1^+(1^{+-})$
 I, G, C need confirmation.

OMMITTED FROM SUMMARY TABLE

was $X(4200)^{\pm}$

This state shows properties different from a conventional $q\bar{q}$ state.
A candidate for an exotic structure. See the review on non- $q\bar{q}$ states.

Reported by CHILIKIN 14 in $J/\psi\pi^+$ at a significance of 6.2σ . Assignments of 0^- , 1^- , 2^- , and 2^+ excluded at 6.1σ , 7.4σ , 4.4σ , and 7.0σ level, respectively. Needs confirmation.

$Z_c(4200)$ MASS

VALUE (MeV)	DOCUMENT ID	TECN	COMMENT
4196⁺³¹⁺¹⁷₋₂₉₋₁₃	CHILIKIN	14	BELL $\overline{B}^0 \rightarrow J/\psi K^- \pi^+$

$Z_c(4200)$ WIDTH

VALUE (MeV)	DOCUMENT ID	TECN	COMMENT
370⁺⁷⁰⁺⁷⁰₋₁₃₂	CHILIKIN	14	BELL $\overline{B}^0 \rightarrow J/\psi K^- \pi^+$

$Z_c(4200)$ DECAY MODES

Mode	Fraction (Γ_i/Γ)
$\Gamma_1 J/\psi\pi^+$	seen

$Z_c(4200)$ BRANCHING RATIOS

$\Gamma(J/\psi\pi^+)/\Gamma_{\text{total}}$	Γ_1/Γ
seen	CHILIKIN 14 BELL $\overline{B}^0 \rightarrow J/\psi K^- \pi^+$

• • • We do not use the following data for averages, fits, limits, etc. • • •

possibly seen ¹ AAIJ 19R LHCb $B^0 \rightarrow K^+\pi^- J/\psi + \text{c.c.}$

¹ From a model-independent analysis.

$Z_c(4200)$ REFERENCES

AAIJ	19R	PRL 122 152002	R. Aaij <i>et al.</i>	(LHCb Collab.)
CHILIKIN	14	PR D90 112009	K. Chilikin <i>et al.</i>	(BELLE Collab.)