

X(4250)[±]

$$I(J^P) = ?(??)$$

OMITTED FROM SUMMARY TABLE

Observed by MIZUK 08 in the $\pi^+ \chi_{c1}(1P)$ invariant mass distribution in $\bar{B}^0 \rightarrow K^- \pi^+ \chi_{c1}(1P)$ decays.

X(4250)[±] MASS

VALUE (MeV)	DOCUMENT ID	TECN	COMMENT
4248⁺₋ 44⁺₋ 180⁺₋ 29⁻₋ 35	¹ MIZUK	08	BELL $\bar{B}^0 \rightarrow K^- \pi^+ \chi_{c1}(1P)$

¹ From a Dalitz plot analysis with two Breit-Wigner amplitudes.

X(4250)[±] WIDTH

VALUE (MeV)	DOCUMENT ID	TECN	COMMENT
177⁺₋ 54⁺₋ 316⁺₋ 39⁻₋ 61	² MIZUK	08	BELL $\bar{B}^0 \rightarrow K^- \pi^+ \chi_{c1}(1P)$

² From a Dalitz plot analysis with two Breit-Wigner amplitudes.

X(4250)[±] DECAY MODES

Mode	Fraction (Γ_i/Γ)
$\Gamma_1 \quad \pi^+ \chi_{c1}(1P)$	seen

X(4250)[±] BRANCHING RATIOS

$\Gamma(\pi^+ \chi_{c1}(1P))/\Gamma_{\text{total}}$	DOCUMENT ID	TECN	COMMENT	Γ_1/Γ
seen	³ MIZUK	08	BELL $\bar{B}^0 \rightarrow K^- \pi^+ \chi_{c1}(1P)$	

³ With a product branching fraction measurement of $B(\bar{B}^0 \rightarrow K^- X(4250)^+) \times B(X(4250)^+ \rightarrow \pi^+ \chi_{c1}(1P)) = (4.0^{+2.3+19.7}_{-0.9-0.5}) \times 10^{-5}$.

X(4250)[±] REFERENCES

MIZUK	08	PR D78 072004	R. Mizuk <i>et al.</i>	(BELLE Collab.)
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