$X(4250)^{\pm}$

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

OMITTED FROM SUMMARY TABLE

Observed by MIZUK 08 in the $\pi^+ \chi_{c1}(1P)$ invariant mass distribution in $\overline{B}^0 \to K^- \pi^+ \chi_{c1}(1P)$ decays. Not seen by LEES 12B in this same mode after accounting for $K\pi$ resonant mass and angular structure.

$X(4250)^{\pm}$ MASS

VALUE (MeV)	DOCUMENT ID		TECN	COMMENT
$4248^{+44+180}_{-29-\ 35}$	[1] MIZUK	08	BELL	$\overline{B}^0 \to K^- \pi^+ \chi_{c1}(1P)$

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

$X(4250)^{\pm}$ WIDTH

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

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

$X(4250)^{\pm}$ DECAY MODES

	Mode	Fraction (Γ_i/Γ)
Γ_1	$\pi^+ \chi_{c1}(1P)$	seen

$X(4250)^{\pm}$ BRANCHING RATIOS

$\Gamma\left(\pi^+ \chi_{c1}(1P)\right)/\Gamma_{\text{total}}$ Γ_1/Γ

VALUE	DOCUMENT ID		TECN	COMMENT
seen	[3] MIZUK	08	BELL	$\overline{B}^0 \to K^- \pi^+ \chi_{c1}(1P)$

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

not seen	[4] LEES	12B	BABR	$B \to K\pi \chi_{c1}(1P)$

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

[4] With a product branching fraction limit of B($\overline{B}^0 \to X(4250)^+ K^-$) $\times$ B($X(4250)^+ \to \chi_{c1} \pi^+$) < 4.0×10^{-5} at 90% CL.

$X(4250)^{\pm}$ REFERENCES

LEES	12B	PR D85 052003	J.P. Lees *et al.*	(BABAR Collab.)
MIZUK	08	PR D78 072004	R. Mizuk *et al.*	(BELLE Collab.)