

**X(4250)<sup>±</sup>**

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

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. Not seen by LEES 12B in this same mode after accounting for  $K\pi$  resonant mass and angular structure.

**X(4250)<sup>±</sup> MASS**

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

<sup>1</sup> From a Dalitz plot analysis with two Breit-Wigner amplitudes.

**X(4250)<sup>±</sup> WIDTH**

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

<sup>2</sup> From a Dalitz plot analysis with two Breit-Wigner amplitudes.

**X(4250)<sup>±</sup> DECAY MODES**

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

**X(4250)<sup>±</sup> BRANCHING RATIOS**

$\Gamma(\pi^+ \chi_{c1}(1P))/\Gamma_{\text{total}}$	$\Gamma_1/\Gamma$
<b>seen</b>	
	<sup>3</sup> MIZUK
	08
	BELL $\bar{B}^0 \rightarrow K^- \pi^+ \chi_{c1}(1P)$

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

not seen <sup>4</sup> LEES 12B BABR  $B \rightarrow K\pi \chi_{c1}(1P)$

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

<sup>4</sup> With a product branching fraction limit of  $B(\bar{B}^0 \rightarrow X(4250)^+ K^-) \times B(X(4250)^+ \rightarrow \chi_{c1} \pi^+) < 4.0 \times 10^{-5}$  at 90% CL.

**X(4250)<sup>±</sup> REFERENCES**

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