

# X(4050)<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.

## X(4050)<sup>±</sup> MASS

VALUE (MeV)	DOCUMENT ID	TECN	COMMENT
<b>4051 ± 14<sup>+20</sup><sub>-41</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(4050)<sup>±</sup> WIDTH

VALUE (MeV)	DOCUMENT ID	TECN	COMMENT
<b>82<sup>+21+47</sup><sub>-17-22</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(4050)<sup>±</sup> DECAY MODES

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

## X(4050) BRANCHING RATIOS

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

<sup>3</sup> With a product branching fraction measurement of  $B(\bar{B}^0 \rightarrow K^- X(4050)^+) \times B(X(4050)^+ \rightarrow \pi^+ \chi_{c1}(1P)) = (3.0^{+1.5+3.7}_{-0.8-1.6}) \times 10^{-5}$ .

## X(4050)<sup>±</sup> REFERENCES

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