

Measurement of absolute branching fractions of $B \rightarrow K + X_{cc}$

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We present measurements of absolute branching fractions of the two-body decays of B mesons $B \rightarrow K + X_{cc}$, where X_{cc} is a charmonium state, by using a data set corresponding to about 470 fb^{-1} collected by the *BABAR* detector at the PEP-II e^+e^- collider. For events in which one B is fully reconstructed, the charmonium spectrum can be observed in an unbiased way by looking at the distribution of the K momentum in the rest frame of the recoiling B .

The absolute branching fraction $B^+ \rightarrow K^+ X(3872)$ is measured for the first time at 3-sigma level, and from it a branching fraction for $BF(X(3872) \rightarrow J/\psi\pi^+\pi^-) = (4.1 \pm 1.3)\%$ is derived, supporting the hypothesis of a molecular component for this resonance.

I read the instructions

Secondary track (number)

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