

Abstract Submitted
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Branching ratio and decay asymmetry measurement of $B^- \rightarrow D^0 K^-$ with $D^0 \rightarrow \pi\pi\pi^0$ QINGLIN ZENG, Colorado State University, BABAR COLLABORATION — We report on the observation of the decay $B^0 \rightarrow D^0/\bar{D}^0 K^-$ with $D^0/\bar{D}^0 \rightarrow \pi\pi\pi^0$. Using data collected by BaBar with an integrated luminosity of about 203 fb^{-1} , we measure the branching fraction of this decay chain and its decay rate asymmetry. This mode can be used to measure the weak phase gamma through the interferences between the $b \rightarrow u\bar{c}d$ and $b \rightarrow c\bar{u}d$ decays.

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