

Abstract Submitted
for the APR07 Meeting of
The American Physical Society

A Dalitz plot analysis of $D^0 \rightarrow K^- K^+ \pi^0$ decays KALANAND MISHRA, University of Cincinnati, BABAR COLLABORATION — We study the resonant substructure of the Cabibbo-suppressed decay $D^0 \rightarrow K^- K^+ \pi^0$ by analyzing the Dalitz plot distribution in 232 fb^{-1} data collected by the BaBar experiment at the PEP-II storage rings. We measure the strong phase difference δ_D and amplitude ratio r_D for the decay processes $D^0 \rightarrow K^{*-} K^+$ and $D^0 \rightarrow K^{*+} K^-$.

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Date submitted: 10 Jan 2007

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