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Measurement of $B \rightarrow D^0 K^*$ decays with $D^0 \rightarrow CP$ eigenstates
QUINCY KWAN-SUT WONG, The Ohio State University, BABAR COLLABORATION — We use 384 million $\Upsilon(4S) \rightarrow B\bar{B}$ events collected with the BaBar detector at the PEP-II B Factory to study the decay $B^- \rightarrow D^0 K^{*-}$ where the $K^{*-} \rightarrow K_S^0 \pi^-$ and the D^0 decays into CP -eigenstates. In particular, we reconstruct the $CP = +1$ final states into $K^+ K^-$ and $\pi^+ \pi^-$ and the $CP = -1$ final states into $K_S^0 \pi^0$, $K_S^0 \phi$, and $K_S^0 \omega$. We also include the non- CP mode $D^0 \rightarrow K^- \pi^+$ in our study.

Soeren Prell
Iowa State University

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