

Abstract Submitted
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A search for radiative decays of D^0 mesons JOE REGENSBURGER,
The Ohio State University, BABAR COLLABORATION — We search for the radiative decays of D^0 mesons in a data sample corresponding to an integrated luminosity of 350 fb^{-1} collected with the BaBar detector at the PEP-II asymmetric-energy e^+e^- collider at SLAC. Unlike radiative penguin decays observed in the B sector, radiative decays of charm mesons are expected to occur largely through non-perturbative, long range processes. We will report on our investigation of the Cabibbo-suppressed decay $D^0 \rightarrow \phi\gamma$ as well as on our search for the previously unobserved Cabibbo-favored decay, $D^0 \rightarrow \bar{K}^{*0}\gamma$.

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