

Abstract Submitted
for the APR07 Meeting of
The American Physical Society

Sorting Category: F4. (E)

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, $D^0 \rightarrow \bar{K}^{*0}\gamma$.

Prefer Oral Session
 Prefer Poster Session

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Date submitted: 10 Jan 2007

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