A search for radiative decays of $D^0$ mesons

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— 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 $D^0 \to \phi \gamma$ as well as on our search for the previously unobserved Cabibbo-favored decay, $D^0 \to \bar{K}^*0 \gamma$. 

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Date submitted: 10 Jan 2007

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