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Flavor changing radiative D meson decays TIM KLEIN, University of Minnesota, CLEO COLLABORATION — Flavor changing radiative decays of the bottom quark provide tests of the Standard Model and powerful constraints on new physics. A better understanding of the long distance contributions to these processes may help reduce theoretical uncertainties on the predicted rates. Flavor changing radiative D meson decays are dominated by long distance contributions due to a vector meson coupling to a photon and are suitable for confronting predictions of nonperturbative mechanisms. We present a measurement of the branching fraction of $D^0 \to \phi\gamma$ in 281^{-1} of data collected by the CLEO-c detector at the Cornell Electron Storage Ring. We also present a measurement of the branching fraction, $D^0 \to \phi\pi^0$, a significant background to the radiative decay.

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