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D^0 Mixing and Doubly Cabibbo Suppressed Decay

CLEO PTOLEMY, Egypt — The CLEO collaboration reported observation of the decay $D^0 \to K^+\pi^-$ in 1993. Since then, the CLEO detector has undergone an upgrade that allows reconstruction of the proper lifetime of the D^0: the installation of a silicon vertex detector, as well as upgrades that permit improved background suppressions. Nearly $5\,\mathrm{fb}^{-1}$ of integrated luminosity has been accumulated with the upgrades in place. The upgraded experiment will be able to distinguish whether the source of the observed $D^0 \to K^+\pi^-$ rate is Doubly Cabibbo Suppressed Decay or mixing, with a sensitivity that will be reported upon.

[X] Prefer Oral Session
[ ] Prefer Poster Session

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