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Measurement of D^0 - \bar{D}^0 Mixing Using $D^0 \rightarrow K^+\pi^-\pi^+\pi^-$ Decays

RAY F. COWAN, Massachusetts Institute of Technology, BABAR COLLABORATION — We present preliminary results from a measurement of D^0 - \bar{D}^0 mixing using the decays $D^0 \rightarrow K^+\pi^-\pi^+\pi^-$ in 480 fb^{-1} of data collected with the *BABAR* detector at the PEP-II e^+e^- colliding-beam storage rings at SLAC. We report results for the mixing parameters x'^2 , y' , and the doubly Cabibbo-suppressed decay rate R_D . We present results with and without assuming CP conservation.

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