Measurement of $D^0$–$\bar{D}^0$ Mixing with CDF

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Wayne State University, CDF COLLABORATION — Using CDF Run II data from 8.8 fb$^{-1}$ of $p\bar{p}$ collisions at 1.96 TeV, we measure the time-dependent ratio $R(t)$ of decay rates $\Gamma(D^0 \to K^+\pi^-)$ to $\Gamma(D^0 \to K^-\pi^+)$ and determine the $D^0$ mixing parameters $x'^2$ and $y'$, along with the significance of their deviation from the no-mixing point $(x'^2, y') = (0, 0)$.