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Measurement of charge asymmetry in $B \rightarrow \mu D^0 X$ decays at D0

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We present the first measurement of the direct CP-violating charge asymmetry in B^\pm mesons decaying to $\mu^\pm D^0 X$ where the D^0 decays to $K^+ \pi^-$, using 10.4 fb^{-1} of proton-antiproton collisions collected by the D0 detector during Run II at the Fermilab Tevatron Collider.

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