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

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  $10.4 \text{ fb}^{-1}$  of proton-antiproton collisions collected by the D0 detector during Run II at the Fermilab Tevatron Collider.

### Experimental Collaboration

D0

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