



**38th INTERNATIONAL CONFERENCE  
ON HIGH ENERGY PHYSICS**

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## **Recent Heavy Flavor results from D0 (10' + 5')**

*Thursday, 4 August 2016 12:15 (15 minutes)*

We report on recent measurements using  $B$ -meson decays in  $10.4 \text{ fb}^{-1}$  of proton-antiproton collisions collected by the D0 detector during Run II at the Fermilab Tevatron Collider. We present the first search for exclusive CPT-violating effects in the mixing of  $B_s^0$  mesons. We find no evidence for the CPT-violating effects tested and place limits on CPT- and Lorentz-invariance violating coupling coefficients,  $\Delta a_\mu$ . We also 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  $K^+\pi^-$ .

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**Session Classification:** Quark and Lepton Flavor Physics

**Track Classification:** Quark and Lepton Flavor Physics