

Abstract Submitted
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Measurement of the charge asymmetry of the $W \rightarrow \mu\nu$ decay channel using the DØ detector TRANG HOANG, SUSAN BLESSING, Florida State University, D0 COLLABORATION — We describe preliminary results of the measurement of the $W \rightarrow \mu\nu$ production charge asymmetry in proton- antiproton collisions with a center of mass energy of 1.96 TeV at the Fermilab Tevatron Collider using the 1.1 fb⁻¹ data sample collected between 2006 and 2007 using the DØ detector. The asymmetry is measured in three muon momentum bins: $20 < p_T \leq 25$ GeV, $25 < p_T \leq 35$ GeV, and $p_T \geq 35$ GeV. With more data and better particle reconstruction, the measurement will provide a significant improvement in the statistical uncertainty compared with the previous measurement from DØ.

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