



CERN Joint EP/PP Seminars

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TITLE: **Results on B Physics at CDF**
DATE: Tue 27/04/2010 11:00
PLACE: Council Chamber

ABSTRACT

In order to pursue new physics beyond the Standard Model (SM), approaches from flavor sector play an important role since they are complementary to direct searches for BSM processes like Supersymmetry (SUSY) particle production. At a center-of-mass energy of 1.96 TeV the Tevatron proton-antiproton collider provides a large amount of b quarks by pair production and generates all sorts of b hadrons. Various B physics analyses are ongoing at CDF with the rich yield of b hadrons collected by the CDF II detector. We present recent CDF B physics results, including the forward-backward asymmetry measurement in $B \rightarrow K^{(*)} \mu^+ \mu^-$, measurement of the polarization amplitudes of $B_s \rightarrow \rho^0 \mu^+ \mu^-$, and the CDF/D0 combined measurement of the B_s mixing phase using 2.8/fb data per experiment.