

Abstract Submitted
for the APR08 Meeting of
The American Physical Society

Search for charged Higgs in lepton+jets channel at CDF GEUM-BONG YU, University of Rochester, CDF COLLABORATION — We present a search for an anomalous boson in top decays using pairly produced top events collected by CDF II detector at the Fermilab Tevatron. Our search focuses on a boson which decays into two jets, like hadronic W decays in the leptop+jets $t\bar{t}$ decay processes. With well identified lepton and b jets, reconstructed di-jet mass would represent higher mass than W if there is another particle produced from top. We especially concern about charged Higgs(MSSM) in low $\tan\beta$ plane near 1 with mass between $90 \text{ GeV}/c^2$ and $150 \text{ GeV}/c^2$. Here we will present the sensitivity of finding such abnormal particle from top decays.

Florencia Canelli

Date submitted: 10 Jan 2008

Electronic form version 1.4