

Abstract Submitted
for the APR10 Meeting of
The American Physical Society

**Measurement of Forward-Backward Asymmetry in $B \rightarrow K^{(*)}\mu\mu$
and Search for $B_s^0 \rightarrow \phi\mu\mu$ at the CDF Experiment** HIDEKI MIYAKE, Uni-
versity of Tsukuba, CDF COLLABORATION — We report results on the measure-
ment of the forward-backward asymmetry (A_{FB}) in $B \rightarrow K^{(*)}\mu\mu$. A_{FB} may imply
new physics beyond the standard model via the loop structure in the decay. The
data set is collected with the CDF II detector using $p\bar{p}$ collisions produced at the
Fermilab Tevatron. A_{FB} is extracted from a muon angular distribution in dimuon
restframe. We also present a search result for $B_s^0 \rightarrow \phi\mu\mu$ that is not observed so far.

Hideki Miyake
University of Tsukuba

Date submitted: 22 Oct 2009

Electronic form version 1.4