

Abstract Submitted
for the APR08 Meeting of
The American Physical Society

First Flavor-Tagged Determination of Bounds on Mixing-Induced CP Violation in $B_s^0 \rightarrow J/\psi \phi$ Decays CHUNLEI LIU, University of Pittsburgh, CDF COLLABORATION — We describe the first determination of bounds on the CP -violation parameter $2\beta_s$ using B_s^0 decays in which the flavor of the bottom meson at production is identified. The result is based on $B_s^0 \rightarrow J/\psi \phi$ decays collected with the CDF II detector using $p\bar{p}$ collisions produced at the Fermilab Tevatron. We report confidence regions in the two-dimensional space of $2\beta_s$ and the decay-width difference $\Delta\Gamma$ and present the latest results.

Manfred Paulini
Carnegie Mellon University

Date submitted: 11 Jan 2008

Electronic form version 1.4