



Contribution ID: 42

Type: **oral**

## New measurement of the $B^0_s$ mixing phase at CDF

*Wednesday, 13 October 2010 11:55 (20 minutes)*

The CDF experiment at the Tevatron collider presents improved bounds on the CP-violating phase  $\beta_s$  and on the decay-width difference  $\Delta\Gamma_s$  of the neutral  $B^0_s$  meson system.

We use 6500  $B^0_s \rightarrow J/\psi \Phi$  decays collected by the dimuon trigger and reconstructed in a sample corresponding to  $5.2 \text{ fb}^{-1}$  of data.

Besides exploiting a two-fold increase in statistics with respect to the previous measurement, several improvements have been introduced in the analysis including

a fully data-driven flavor-tagging calibration and proper treatment of possible S-wave contributions.

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**Session Classification:** CP Violation

**Track Classification:** CP Violation