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## New measurement of the $B_{0_s}$ mixing phase at CDF

*Saturday 24 July 2010 14:30 (13 minutes)*

CDF presents improved bounds on the CP-violating phase  $\beta_{0_s}$  and on the decay-width difference  $\Delta\Gamma_{0_s}$  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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