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New measurement of the B_0^s mixing phase and observation of suppressed B_s decays at CDF

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The CDF experiment presents improved bounds on the CP-violating phase β_s and on the decay-width difference $\Delta\Gamma_s$ of the neutral B_s^0 meson system.

We use 6500 $B_s^0 \rightarrow J/\psi \Phi$ decays collected by the dimuon trigger and reconstructed in a sample corresponding to 5.2 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. In addition, the first observation of suppressed $B_0^s \rightarrow J/\psi K^*$ and $B_s \rightarrow J/\psi K_s$ will be reported.

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