



CERN Joint EP/PP Seminars

SPEAKER: Michal Kreps (University of Warwick)
TITLE: **Measurement of CP Violation in $B_s \rightarrow J/\psi \phi$ Decays at CDF**
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ABSTRACT

The B^0_s mixing phase β_s is a key probe of physics beyond the standard model (SM). The first Tevatron measurements hinted at a $\approx 2\sigma$ departure from the SM expectations. We present a new analysis using $B_s^0 \rightarrow J/\psi \phi$ decays reconstructed in 5.2 fb^{-1} of data collected by CDF detector, where tightened bounds on the mixing phase are obtained along with an improved measurement of the decay-width difference $\Delta \Gamma_s$ and of B^0_s lifetime.