



Joint PP/EP Seminar

SPEAKER: Guillermo Gomez-Ceballos (MIT)

TITLE: Measurement of B_s mixing parameters from
 $B_s \rightarrow J/\psi \phi$ decays at CDF and D0

DATE: Tue 18/03/2008 16:30

PLACE: Main Auditorium

ABSTRACT

CP violation in B^0 and B^+ decays has already been extensively investigated at B-factories over last years, while the corresponding knowledge in the B_s system has been lacking so far. B_s mesons are produced with large cross section at the Tevatron collider. Following the measurement of the B_s to \bar{B}_s oscillation frequency in 2006, the D0 and CDF experiments have now investigated CP asymmetries in B_s meson decays. We report on the first flavor-tagged analyses from both experiments using B_s decays to $J/\psi \phi$. This channel is sensitive not only to the width difference $\Delta\Gamma$ in the B_s system but also to the (CP violating) weak phase β_s .