

DESY Seminar

Tuesday, 01.04.2008, 17h

DESY Hörsaal

B physics at the Tevatron

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The physics of the bottom quark is a compelling subject, on one hand because its large mass enables theoretical approaches yielding precise predictions for b-flavored hadron properties, and on the other hand because of the large CP violation predicted (and seen) in the B system. Extensive new information on charged and neutral b-mesons from the B factories has had a major impact on B physics in the last decade. The Tevatron experiments CDF and D0, each with approximately 3 fb^{-1} on tape, are also now making a big impact. These are the only experiments now producing B^0_s , B^+_c , Λ^0_B , Λ^\pm_B , X^-_B , and excited b-hadron states. Spectroscopy, lifetimes, B^0_s mixing, CP violation in the B^0_s system, and rare B decays enlighten us on a range of topics from QCD to physics beyond the standard model. This talk surveys recent highlights of the CDF and D0 B physics program with an emphasis on the "other" b hadron states.

- Tea and cookies will be served at 16.45h in the lobby
- After the seminar there is a chance for private discussions with the speaker over wine and pretzels