

DESY Seminar

12 January 2005, 17:00, DESY Hörsaal

M. Cristinziani (SLAC)

Charmless B meson decays and measurements of CKM alpha at BaBar

With over 200 million B meson pair collected since 1999, the BaBar experiment at SLAC offers the possibility to study several aspects of CP violation. After the precision measurement of $\sin(2\beta)$ the focus has now shifted to the determination of the other angles and sides of the Unitarity Triangle.

This talk will describe the present knowledge of the CKM angle α , based on two body and quasi two body hadronic B decays. In particular, a full isospin analysis in the $B \rightarrow \rho\rho$ system has recently become feasible. Further on, the properties of two body decays to pions and kaons, including the observation of direct asymmetry in $B^0 \rightarrow K^+ \rho^-$ will be discussed.

- Tea and cookies will be served at 16:45 in the lobby.