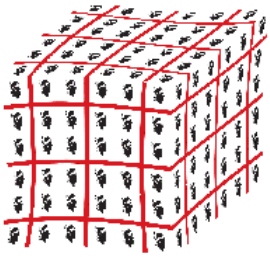

Contribution ID: **316** Type: **not specified**

B meson spectrum and decay constant from Nf=2 simulations

Tuesday, 15 June 2010 11:30 (20 minutes)

We report about a preliminary extraction of masses and decay constants of the lowest pseudoscalar B meson states from lattice simulations with Nf=2 Wilson-Clover dynamical quarks, using a procedure recently presented by the ALPHA Collaboration. The heavy quark is described by Heavy Quark Effective Theory developed up to 1/m_b. Coefficients of the effective theory have been determined non perturbatively by matching few observables with their QCD counterpart in the Schrödinger Functional framework. Hadronic matrix elements are obtained by solving a Generalised Eigenvalue Problem on a matrix of 2-pts correlators that have been computed on CLS ensembles. We have considered several lattice spacings and sea quark masses to deal with cut-off effects and chiral extrapolation.

Please, insert your presentation type (talk, poster)

talk

Primary author: BLOSSIER, Benoit (CNRS/LPT Orsay)

Presenter: BLOSSIER, Benoit (CNRS/LPT Orsay)

Session Classification: Parallel 18: Weak decays and matrix elements

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