The 33rd International Symposium on Lattice Field Theory (Lattice 2015)



Contribution ID: 141

Type: Talk

Prospects and status of quark mass renormalization in three-flavour QCD

Tuesday, 14 July 2015 14:20 (20 minutes)

We present the current status of a revised strategy to compute the running of renormalized quark masses in QCD with three flavours of massless O(a) improved Wilson quarks. The strategy employed uses the standard finite-size scaling method in the Schroedinger functional and accommodates for the non-perturbative scheme-switch which becomes necessary at intermediate renormalized couplings as discussed in [1411.7648].

Primary authors: Dr RAMOS, Alberto (CERN); PENA, Carlos (Instituto de Física Teoríca UAM/CSIC); Mr PRETI, David (IFT/CSIC); CAMPOS, Isabel (Instituto de Física de Cantabria); Dr FRITZSCH, Patrick (Instituto de Física Teoríca UAM/CSIC); VLADIKAS, Tassos (INFN, Rome II)

Presenter: Dr FRITZSCH, Patrick (Instituto de Física Teoríca UAM/CSIC)

Session Classification: Standard Model Parameters and Renormalization

Track Classification: Standard Model Parameters and Renormalization