



Contribution ID: 268

Type: Oral Presentation

Light quark masses from a mixed action with Wilson twisted mass valence quarks

Wednesday, August 10, 2022 2:40 PM (20 minutes)

We report on the determination of light quark masses with three sea-quark flavours based on a mixed action with maximally twisted valence fermions on CLS ensembles with $O(a)$ -improved Wilson sea quarks. The renormalisation and the renormalisation group running over a wide range of scales are based on existing non-perturbative computations in the Schrödinger functional scheme. The determinations of the light (u, d) and strange quark masses are based on a combination of the results from the unitary Wilson action with those from the mixed action.

Primary author: HERDOIZA, Gregorio (Instituto de Física Teórica UAM-CSIC)

Co-authors: CONIGLI, Alessandro (IFT UAM-CSIC); FRISON, Julien (DESY ZPPT/NIC); PENA, Carlos (IFT UAM-CSIC); SAEZ, Alejandro (IFT UAM-CSIC); UGARRIO, Javier (IFT UAM-CSIC)

Presenter: HERDOIZA, Gregorio (Instituto de Física Teórica UAM-CSIC)

Session Classification: Standard Model Parameters

Track Classification: Standard Model Parameters