



Contribution ID: 109

Type: Talk

Towards the continuum limit with improved Wilson fermions employing open boundary conditions. Part 1.

Friday 29 July 2016 16:30 (20 minutes)

We present results obtained by RQCD on various observables, obtained from simulations of $N_f = 2 + 1$ flavours of non-perturbatively order- a improved Wilson fermions, employing open boundary conditions in time, that were created within the CLS (Coordinated Lattice Simulations) effort. Configurations at five different values of the lattice spacing, ranging from 0.086 fm down to below 0.04 fm exist and many quark mass combinations, in particular along a line of an (almost) constant sum of quark masses and a constant renormalized strange quark mass have been generated. Several key observables, mostly meson and baryon masses have been computed, and these results will be presented. In some cases a precise and controlled extrapolation to the continuum limit has become possible.

Author: SOELDNER, Wolfgang (Regensburg University)

Presenter: SOELDNER, Wolfgang (Regensburg University)

Session Classification: Hadron Spectroscopy and Interactions

Track Classification: Hadron Spectroscopy and Interactions