



Contribution ID: 360

Type: Talk

Scaling and properties of $1/a = 1$ GeV, 2+1 flavor Mobius Domain Wall Fermion ensembles

Friday, July 29, 2016 5:10 PM (20 minutes)

The RBC and UKQCD Collaborations have used 2+1 flavor Domain Wall Fermion ensembles, generated with the Iwasaki gauge action plus the Dislocation Suppressing Determinant Ratio (DSDR), for a variety of calculations, including our ongoing G-parity calculation of $K \rightarrow \pi\pi$ matrix elements. These calculations have been done with $1/a = 1.35$ GeV. With the HotQCD Collaboration, zero and finite temperature ensembles at even coarser lattice spacings, $1/a = 1$ GeV, have been produced. These coarse, zero temperature ensembles have been included in global fits for light hadronic observables and show scaling errors of a few percent for them. Large physical volume ensembles at $1/a = 1$ GeV are being generated for a variety of measurements and our ongoing investigation of their properties will be presented.

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Session Classification: Hadron Spectroscopy and Interactions

Track Classification: Hadron Spectroscopy and Interactions