

The Chiral Condensate on 2-flavor Staggered Configurations from an Overlap Operator

Presenter: Anna Hasenfratz (University of Colorado)

Anna Hasenfratz and Roland Hoffmann

Abstract: We measure the low lying eigenmodes of an overlap Dirac operator on 2-flavor staggered configurations. By comparing the eigenmode distributions to the predictions of Random Matrix Theory we identify the overlap mass that best matches the staggered sea quarks. The agreement between the numerical data and RMT tests to what accuracy the staggered configurations can be described by the overlap operator. We predict the value of the infinite volume 2-flavor chiral condensate.