



Contribution ID: 389

Type: Talk

The Combinatorics of Lattice QCD at Strong Coupling

Monday, 23 June 2014 18:10 (20 minutes)

We compare the combinatorics of staggered and Wilson fermions in the strong coupling limit for various colors and flavors. Based on the hopping parameter expansion, we express the partition functions of both discretizations in terms of polynomials with coefficients of distinct combinatorial interpretation.

We address how gauge corrections to the strong coupling limit modify the combinatorics and possibly make both lattice discretizations more similar in the continuum limit.

We compare our analytic results by some recent numerical findings obtained at finite temperature and density.

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Session Classification: Nonzero temperature and Density

Track Classification: Nonzero Temperature and Density