



Contribution ID: 169

Type: Talk

Relative weights approach to dynamical fermions at finite densities

Thursday, July 28, 2016 6:10 PM (20 minutes)

The relative weights method is applied to extract the effective Polyakov line action corresponding to $SU(3)$ gauge theory with dynamical staggered fermions, and this theory is solved, at finite chemical potential and a few sample temperatures, quark masses, and couplings, by a mean field technique. The effective Polyakov line action is highly non-local, and in at least one case we encounter very long-lived metastable states in the numerical simulation.

Primary author: Dr GREENSITE, Jeffrey (San Francisco State University)

Co-author: Dr HOLLWIESER, Roman (New Mexico State University)

Presenter: Dr GREENSITE, Jeffrey (San Francisco State University)

Session Classification: Nonzero Temperature and Density

Track Classification: Nonzero Temperature and Density