XXIV QUARK MATTER
DARMSTADT 2014

Contribution ID: **675**   Type: **Poster**

Prospects of effective Polyakov line actions for investigations of dense nuclear matter

Tuesday 20 May 2014 16:30 (2 hours)

Numerical simulations of QCD on the lattice is an essential tool for non-perturbative investigations at finite temperature. At finite density these investigations are hampered by the sign problem. A reformulation in terms of a Polyakov effective theory allows to circumvent this problem to a large extend. I will summarize the derivation of the effective action in terms of a spatial strong coupling expansion and discuss applications, in particular in the region of dense nuclear matter.

On behalf of collaboration:

None

Author: BERGNER, Georg

Presenter: BERGNER, Georg

Session Classification: Poster session

Track Classification: QCD at High Temperature and/or Density