Contribution ID: **757** Type: **Poster**

The curvature of the pseudocritical line from lattice QCD: Taylor expansion and Analytic continuation compared

Tuesday 15 May 2018 19:35 (5 minutes)

The $T - \mu$ phase diagram of QCD is, both theoretically
and experimentally, still largely unknown.
On the theoretical side, lattice QCD is the only reliable
tool to investigate the region close to the $\mu = 0$ axis.
I will present our determinations of the curvature of the chiral
pseudocritical line from $N_f = 2 + 1$ lattice QCD at the physical point
as obtained by adopting different approaches.
I will directly compare the method of the analytic continuation
from imaginary chemical potential with the method of Taylor expansion.

Content type

Theory

Collaboration

Centralised submission by Collaboration

Presenter name already specified

Authors: NEGRO, Francesco (INFN - Sezione di Pisa); D'ELIA, Massimo (University of Pisa); BONATI, CLAUDIO (University of Pisa); MESITI, Michele (University of Pisa); Dr SANFILIPPO, Francesco (INFN - Sezione di Roma 3); Mr ZAMBELLO, Kevin (University of Parma and INFN); Dr MARITI, Marco (INFN - Sezione di Pisa)

Presenter: NEGRO, Francesco (INFN - Sezione di Pisa)

Session Classification: Poster Session

Track Classification: QCD at high temperature