

Gemeinsame Veranstaltung von
Humboldt-Universität zu Berlin, Institut für Physik
(Theorie der Elementarteilchen / Computerorientierte Theoretische Physik)
DESY, Zeuthen

SEMINAR

**Feldtheorie auf dem Gitter und
Phänomenologie der Elementarteilchen**

Am Dienstag, dem **30 Januar**, um **15:30 Uhr s.t.** spricht

Prof. Owe Philipsen

Westfälische Wilhelms-Universität – Münster

zum Thema

The QCD phase diagram at zero and small baryon density

Abstract

With the running of heavy ion collision experiments, theoretical predictions concerning the quark hadron phase transition have become an urgent task. Since this is a strong coupling problem, non-perturbative methods are necessary. Unfortunately, due to the so called 'sign-problem' standard lattice Monte Carlo simulations are inapplicable to situations with finite baryon number. In recent years several approximate methods have been invented to side step this problem. I report results obtained from simulations at imaginary chemical potential, where there is no sign problem, followed by analytic continuation, and compare with other approaches.

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