

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 Montag, dem **20. Oktober**, um **16:00 Uhr s.t.** spricht

Marcus Petschlies

Humboldt-Universität zu Berlin

zum Thema

Exploring the phase structure of Wilson twisted mass lattice QCD at finite Temperature

Abstract

The project pursued by the tmfT collaboration aims at an investigation of lattice QCD thermodynamics with two light quark flavours. In contrast to previous analyses, our goal is the application of the Wilson twisted mass formulation to achieve the necessary $O(a)$ improvement. As a preparatory step we characterized the phase structure of the lattice model, which turned out to be rather complex and diversified; in the talk I will give a comprehensive overview of our present understanding of it.

Ort: Humboldt-Universität zu Berlin, Institut für Physik
Newtonstraße 15, 12489 Berlin-Adlershof, **Raum 1'202**
(Lageplan: http://linde.physik.hu-berlin.de/images/lageplan_neu.gif)

Web: <http://people.physik.hu-berlin.de/~urbach/seminar/>