

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 **31. Mai 2010**, um **11:00 Uhr s.t.** spricht

Leonardo Giusti

CERN & University of Milano-Bicocca

zum Thema

Chiral symmetry breaking and the
Banks-Casher relation on the lattice

Abstract

By taking inspiration from the Banks-Casher relation, new probes of the chiral regime of QCD can be defined on the lattice. I will discuss a family of spectral observables which allows to define the chiral condensate and the topological susceptibility with Wilson fermions, without ultraviolet power divergences to be subtracted. First numerical results for the chiral condensate with $O(a)$ -improved Wilson fermions and two dynamical flavours are presented.

Ort: DESY, Hörsaal 3
Platanenallee 6, 15738 Zeuthen

Web: <http://latticeseminar.desy.de/>