

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 **17. Mai 2010**, um **16:00 Uhr s.t.** spricht

Benoit Blossier

LPT Orsay

zum Thema

Heavy Quark Lattice Calculations

Abstract

Precision tests of the Standard Model are among the main goals of high energy experiments like LHCb or B factories. Indeed there is still room left for new physics to be observed in processes with B mesons. Theoretical uncertainties on hadronic parameters encoding the long-distance QCD dynamics in those systems need to be reduced. For instance a particular attention in heavy quarks lattice simulations has to be paid on cut-off effects because the typical scale of the problem is of the order of the lattice spacing. In my talk I will discuss several strategies proposed to deal with heavy quarks on the lattice and illustrate their use in the computation of relevant quantities in heavy flavour phenomenology.

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