

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 **21 November**, um **15:30 Uhr s.t.** spricht

Prof. Michele Caselle

University of Torino

zum Thema

Effective models for the description of the flux tube in lattice gauge theories

Abstract

In this talk I will discuss various properties of the flux tube in lattice gauge theories using two different effective models. The first one is the so called effective string theory approach, in which the flux tube is modeled using an effective Nambu-Goto string. The second one (which can be applied only to (2+1) dimensional LGT's) combines dimensional reduction at high temperature (following the well known Svetitsky Yaffe conjecture) and the power of two dimensional integrable models. After a short introduction on these two approaches I will discuss in particular their application to the study of the width of the flux tube as in the vicinity of the deconfinement transition.

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Web: <http://www-zeuthen.desy.de/~shindler/seminar/seminar.html>