

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 **27 Juni, um 15:30 Uhr s.t.** spricht

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zum Thema

Defects in a gauge condensate

Abstract

An approximate non-perturbative quantization method for strongly interacting fields is offered. In this approach the gauge fields components are decomposed on ordered and disordered phases. The ordered phase is almost classical degrees of freedom. The disordered phase (gauge condensate) is completely quantum degrees of freedom. On the basis of this decomposition and using some assumptions and approximations the initial $SU(3)$ gauge Lagrangian can be reduced to $SU(2)$ gauge Lagrangian (ordered phase) + scalar field (disordered phase). The solutions of corresponding fields equations are obtained which are: (a) an infinite flux tube filled with longitudinal electric and magnetic fields; (b) a dyon-antidyon pair with zero length between dyon and antidyon; (c) monopole-antimonopole pair with zero length between monopole and antimonopole.

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(Lageplan: http://linde.physik.hu-berlin.de/images/lageplan_neu.gif)

Fahrverbindungen: S-Bahn-Station Adlershof

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