

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

Prof. Jan Ambjorn

Niels Bohr Institute – Copenhagen

zum Thema

Computer studies of the quantum universe

Abstract

We still lack a convincing theory of quantum gravity. The use of "causal dynamical triangulations" (CDT) is an attempt to define quantum gravity via a non-perturbative lattice path integral. Some continuum results can seemingly be extracted from Monte Carlo simulations. They agree with the simplest continuum mini-superspace model calculations and with results obtained by (truncated) renormalization group equations. I will give a review of the CDT-approach, its virtues and drawbacks and the possible applications in quantum cosmology.

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