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E I N L A D U N G

im Rahmen des Seminars für Mathematische Physik

(Joint TU/UV Theory Seminar)

zum Vortrag

von

Michael Borinsky

NIKHEF, Amsterdam

über

„The graphical function method applied to phi^3 in D=6"

Abstract:
The graphical function method is an efficient tool to perform perturbative calculations
in position space QFT. One reason for this efficiency is that the method utilizes the
underlying conformal properties of the QFT. I will review the method and discuss some
recent extensions, in a joint work with Oliver Schnetz, of the method to arbitrary even
dimensions. Using these extensions we were able calculate the 5-loop renormalization
group functions in phi^3-theory. I will also discuss applications to the calculation of
critical exponents in percolation theory.

Zeit: Dienstag, 19.11.2019, 13.45 h

Ort: TU Wien - Wiedner Hauptstraße 8 - Red Area, 7th floor,
Seminar Room (DC 07 A15)

gez.: S. Fredenhagen, D. Grumiller, C. Zwikel, T. Schimannek