



Forschergruppe 877

Universität Leipzig
Fakultät für Physik und
Geowissenschaften
Institut für Theoretische Physik

Gemeinsames

NTZ - Kolloquium / FOR877-Seminar

Am Freitag, dem 09.11.2012 um 16:00 Uhr spricht

Dr. N. Clisby
(University of Melbourne)

über

**There are $7 \times 10^{26\ 018\ 276}$ self-avoiding walks of
38 797 311 steps on \mathbb{Z}^3**

Abstract:

We obtained via Monte Carlo simulation a radically improved estimate for the connective constant of the self-avoiding walk model on \mathbb{Z}^3 : $\mu = 4.68403993(3)$. Our computer experiment combined a novel algorithm and a recent, extremely efficient implementation of the pivot algorithm. As a by-product of this approach we are able to directly estimate the number of self-avoiding walks to high precision.

Ort: ITP, Raum 210

Interessenten sind herzlich eingeladen!

gez. Prof. Janke