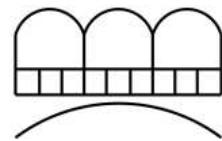Graduiertenkolleg

Experimentelle und konstruktive Algebra

RWTHAACHEN
UNIVERSITY
Experimental and
constructive
algebra

Kolloquiumsvortrag

Dienstag, 24. Januar 2012, 15:45 Uhr, Hörsaal III

ANDREW OBUS (Columbia University in the City of New York, USA / Max-Planck-Institut für Mathematik Bonn)**:**
The Local Lifting Problem

If k is an algebraically closed field of characteristic p and G is a finite group, one can ask whether a continuous k-linear G-action on $k[[t]]$ lifts to a continuous linear G-action on $R[[t]]$, for some discrete valuation ring R in characteristic zero with residue field k. We will motivate this question from algebraic geometry, and discuss several explicit examples where lifting is and is not possible. The Oort conjecture states that lifting should always be possible when G is cyclic. We will also discuss recent progress of **STEFAN WEWERS** and the speaker toward this conjecture.

Wir laden alle Interessierten herzlich ein.

Ab 15:00 Uhr gibt es Kaffee und Tee in der Bibliothek des Lehrstuhl D für Mathematik.