



E i n l a d u n g

zum

Kolloquium des Mathematischen Instituts (unterstützt vom Graduiertenkolleg und SFB 478)

am Donnerstag, 29.10.2009 um 16:30 Uhr, im Hörsaal M5, spricht

Professor Karen Vogtmann

(Cornell University, Ithaca NY)

über das Thema:

„Outer spaces“

Abstract:

An "outer space" for a group G is a contractible space with a proper action of the group $\text{Out}(G)$ of outer automorphisms of G . Classical examples include homogeneous spaces and Teichmüller spaces. For a free group F of finite rank, an outer space was introduced in the mid-1980's. The basic idea is to think of an automorphism of a free group topologically, as a homotopy equivalence of a finite graph. In this talk I will describe Outer space and explain how it is used to obtain algebraic information about $\text{Out}(F_n)$, and then indicate how ideas from Outer space are currently expanding in new directions.

Tee wird ab 16 Uhr im SR0 des Mathematischen Instituts serviert.