

Vorträge

Mittwoch, 15. Juni 2011, ab 16:15 Uhr, Olga Taussky-Todd Raum (C 209), UZA 4

Mathematisches Kolloquium

Univ.-Prof. Dr. Klaus Schmidt: “Entropy and periodic points of algebraic actions of discrete amenable groups”

(15:45 Uhr bis 16:15 Uhr: K & K im Common Room)

Abstract: If G is a discrete amenable group, every element f in the integral group ring ZG defines a measure-preserving action α_f of G by automorphisms of a compact abelian group X_f . This action is automatically ergodic whenever G is not essentially equal to the group of integers.

The entropy of this 'algebraic' action α_f is an interesting quantity associated with the element f in ZG . If $G = \mathbb{Z}^d$, then it is the logarithmic Mahler measure of f (viewed as a Laurent polynomial in d variables with integer coefficients).

If G is residually finite and the action α_f is expansive, it is the logarithmic growth rate of the number of periodic points of α_f , which in turn coincides with the logarithm of the Fuglede-Kadison determinant associated with f (viewed as an element of the group von Neumann algebra of G).

If α_f is nonexpansive, the connection between entropy, the logarithmic growth rate of periodic points, and Fuglede-Kadison determinants holds many mysteries, even for $G = \mathbb{Z}^d$. Some of these problems will be discussed in this lecture.

This talk is based on joint work with C. Deninger, D. Lind and E. Verbitskiy.

Dekan Univ.-Prof. Dr. Harald Rindler, V.-Prof. Mag. Dr. Herwig Hauser

Dienstag, 14. Juni 2011, TU, Institut für Informationssysteme, Favoritenstraße 9, Seminarraum von Neumann, (Erdgeschoss)

WPI Vortrag

14:00 Uhr: “Koivisto Mikko: Exponential-time algorithms for Bayesian networks”

15:00 Uhr: “Liedloff Mathieu: “A Fast Exact Algorithm for $L(2,1)$ -Labeling of Graphs”

Link: http://www.wpi.ac.at/talks_view.php

Freitag, 17. Juni 2011, Freihaus, grüner Turm (A), 5. Stock, kleiner Seminarraum 104, Wiedner Hauptstraße 8-10, 1040 Wien

Algebra Seminar (Im Rahmen der Lehrveranstaltung "Seminar mit Seminararbeit")

12:00 Uhr: Victoria Fiedler: Partitionsverbände

13:00 Uhr: Andreas Fellner: Fraktale Verbände

Link: <http://www.dmg.tuwien.ac.at/fg1/seminar.html>

Donnerstag, 16. Juni 2011, von 12:00 Uhr bis 13:00 Uhr. Seminarraum 2A 310, UZA 2

Algebra-Kolloquium

J.S. Wilson: „Hereditarily just infinite groups“

Link: <http://plone.mat.univie.ac.at/vortrage/ak>

Freitag, 17. Juni, 2011, von 14:00 Uhr bis 16:00 Uhr, Leopolds Schmetterer Seminarraum des Instituts für Statistik und OR, 3. Stock Universitätsstraße 5, 1010 Wien

Berufungsvorträge Mathematics and Finance

Joachim Grammig: “Creative Destruction and Asset Prices”

(Details siehe Attachment)