

AMS Special Session on
Geometric Methods in Group Theory and
Semigroup Theory

Oct 21-23, 2005, Lincoln NE

Friday, Afternoon Session, 4 talks, 107 Burnett Hall

- 1:45-2:05 Z Šuník
Hanoi towers, automaton groups and branch groups
- 2:15-2:35 R I Grigorchuk
Groups of finite type
- 2:45-3:05 Benjamin Steinberg
Profinite groups, profinite trees, Stallings foldings and finite monoids
- 3:15-3:35 Mark Sapir
Groups acting on tree-graded spaces

Friday, Public Lecture, Kimball Recital Hall

- 4:00-5:00 Sir Michael Atiyah
The nature of space

Friday, Reception, Van Brunt Visitor Center

- 5:15-6:45 Reception

Saturday, Morning Session, 6 talks, 107 Burnett Hall

- 8:30-8:50 Jean-Camille Birget
Algebraic characterizations of one-way functions
- 9:00-9:20 Jennifer Taback
Reidemeister number as a quasi-isometry invariant for the solvable Baumslag-Solitar groups
- 9:30-9:50 Noel Brady
Distortion of surface groups in free-by-cyclic groups
- 10:00-10:20 Emina Alibegović
Curvature properties of limit groups
- 10:30-10:50 Rena Hull
Biautomaticity and CAT(0) piecewise Euclidean 2-complexes
- 11:00-11:20 Kim Ruane
Groups acting on CAT(0) spaces of the form $X \times \mathbb{R}$

Saturday, Afternoon Session, 4 talks, 107 Burnett Hall

- 3:00-3:20 Ilya Kapovich
Asymptotic density in free groups and \mathbb{Z}^k , Visible Points and Test Elements
- 3:30-3:50 Adam Piggott
Detecting the growth of free-group automorphisms via their action on homology
- 4:00-4:20 Laura I Ciobanu
Examples of retracts in a free group that are not the fixed subgroup of any group of automorphisms
- 4:30-4:50 Robert Gilman
Solving one variable equations in free groups

Saturday, Dinner Reception, 2248 Sheridan Blvd.

- 6:30-10:00 Dinner and drinks at the home of John and Glory Meakin

Sunday, Morning Session, 6 talks, 107 Burnett Hall

- 8:30-8:50 Paul Schupp
What properties do groups of random knots have?
- 9:00-9:20 Vesna Kilibarda
Ends for Monoids and Semigroups
- 9:30-9:50 Angela K. Barnhill
A criterion for property FA_n
- 10:00-10:20 Jon McCammond
Artin groups in a continuous context
- 10:30-10:50 Patrick Bahls
Rewriting systems and orderings on Artin monoids
- 11:00-11:20 Michael L Mihalik
Minimal Splittings of Coxeter Groups

Sunday, Afternoon Session, 3 talks, 107 Burnett Hall

- 2:00-2:20 Lucas A Sabalka
Embeddings of right-angled Artin groups into graph braid groups
- 2:30-2:50 Francesco Matucci
The Simultaneous Conjugacy Problem for Thompson's Group F is Solvable
- 3:00-3:20 Jens Harlander
On the Homotopy Classification of 1-Relator Groups

Organizers

Susan Hermiller, University of Nebraska - Lincoln
John Meakin, University of Nebraska - Lincoln
Zoran Šunik, Texas A&M University