

Workshop on INFINITE MONSTER GROUPS

December 14 - December 18, 2011

Organizers: Goulnara Arzhantseva, Mark Sapir

Tuesday, December 13, 2011: Erwin Schrödinger Lecture:

17:00 – 18:00: Martin BRIDSON

Finitely presented groups: geometry, decision problems, finite quotients, and monsters

18:00: Reception (in the spirit of Advent)

Wednesday, December 14, 2011

09:00 – 10:00: Martin BRIDSON

Decision problems for discrete and profinite groups

10:00 – 10:20: coffee break

10:20 – 11:20: Denis OSIN

Introductory talk: Asymptotic cones of finitely generated groups

11:30 – 12:30: Yves CORNULIER

Monster polycyclic groups?

12:30 – 15:00: lunch break

15:00 – 16:00: Rémi COULON

Growth and order of automorphisms of free groups and free Burnside groups

16:15 – 17:15: Thomas DELZANT

Kähler groups, real hyperbolic spaces and the Cremona group

Thursday, December 15, 2011

09:00 – 10:00: Alexey MURANOV

Boundedly generated groups and small-cancellation method

10:00 – 10:20: coffee break

10:20 – 11:20: Arye JUHASZ

The Combinatorics of Engel Words

11:20 – 13:30: lunch break

13:30 – 14:30: Andreas THOM

Introductory talk: von Neumann algebras and l_2 -invariants

14:45 – 15:45: Viktor SCHROEDER

Moebius structure on the boundary of hyperbolic groups

16:00 – 17:00: Miklos ABERT

On Invariant Random Subgroups and Benjamini-Schramm convergence

Friday, December 16, 2011

09:00 – 10:00: Olga KHARLAMPOVICH

Definable subsets in a free group (joint with A. Myasnikov)

10:00 – 10:20: coffee break

10:20 – 11:20: Alexei MIASNIKOV

Dehn Monsters

11:30 – 12:30: Andreas THOM

Determinants, Entropy and l_2 -Torsion

Free Afternoon

Saturday, December 17, 2011

09:00 – 10:00: Ashot MINASYAN

Residual finiteness of outer automorphism groups

10:00 – 10:20: coffee break

10:20 – 11:20: Alexander OLSHANSKII

Some monster actions of free and hyperbolic groups

11:30 – 12:30: Jan SPAKULA

Coarse amenability and coarse embeddings

12:30 – 14:30: lunch break

14:30 – 15:30: Shahar MOZES

A locally compact simple group with no lattices

15:45 – 16:45: Ralph STREBEL

Sigma-invariants and their applications

17:00 – 18:00: Problem Session

19:30: Conference Dinner

Sunday, December 18, 2011

09:00 – 10:00: Valerio CAPRARO

A construction of groups preserving hyperlinearity

10:00 – 10:20: coffee break

10:20 – 11:20: Bertrand RÉMY

Simple and non-simple groups acting on buildings, overview and open questions

11:30 – 12:30: Denis OSIN

Groups with hyperbolically embedded subgroups

12:30 – 14:30: lunch break

14:30 – 15:30: Jacek SWIATKOWSKI

A degree of topological complexity for Gromov boundaries of hyperbolic groups

15:45 – 16:45: Pavel ZALESSKII

Profinite Topology, Goodness and mod- p Schur multiplier

17:00 – 18:00: Jesse D. PETERSON

W^ -Superrigidity*

All lectures take place in the ESI Boltzmann Lecture Hall