

Workshop II: Dynamics of Groups and Rational Maps

Monday April 8, 2013

- 8:00–9:00 *Check-In/Light Breakfast (Hosted by IPAM)*
- 9:00–9:50 **Anton Zorich** (Institut Mathématiques de Jussieu)
Right-Angled Billiards and Volumes of the Moduli Spaces of Quadratic Differentials on a Riemann Sphere
- 10:00–10:15 *Break*
- 10:15–11:05 **William Hooper** (City College of New York)
Resewing Pillow Cases
- 11:15–11:30 *Break*
- 11:30–12:20 **Carlos Santos** (Centre National de la Recherche Scientifique (CNRS))
Saddle-Connections in Translation Surfaces and Eskin-Kontsevich-Zorich Regularity Conjecture
- 12:30–2:30 *Lunch (on your own)*
- 2:30–3:20 **John Smillie** (Cornell University)
Ratner Theory and Strata?
- 3:30–4:00 *Break*
- 4:00–4:50 **Alex Eskin** (University of Chicago)
Entropy and the $SL(2,R)$ Action on Moduli Space
- 5:00–6:30 *Reception (Location: IPAM Lobby)*

Tuesday April 9, 2013

- 8:00–9:00 *Continental Breakfast*
- 9:00–9:50 **Alex Kontorovich** (Yale University)
Diophantine Problems in Thin Orbits
- 10:00–10:15 *Break*
- 10:15–11:05 **Kevin Pilgrim** (Indiana University)
Dynamics of Pillowcase Foldings: A Survey
- 11:15–11:30 *Break*

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- 11:30–12:20 **Federico Rodriguez Hertz** (Pennsylvania State University)
Global Rigidity of Higher Rank Abelian Anosov Algebraic Actions
- 12:30–2:30 *Lunch (on your own)*
- 2:30–3:20 **Alexander Bufetov** (Independent University of Moscow)
Infinite Determinantal Measures
- 3:30–4:00 *Break*
- 4:00–4:50 **Sergiy Merenkov** (University of Illinois at Urbana-Champaign)
Quasisymmetries of Sierpinski Carpet Julia Sets

Wednesday April 10, 2013

- 8:00–9:00 *Continental Breakfast*
- 9:00–9:50 **Volodymyr Nekrashevych** (Texas A&M University - College Station)
Group Actions and Symbolic Dynamics of Julia Sets
- 10:00–10:15 *Break*
- 10:15–11:05 **Mariusz Urbanski** (University of North Texas)
Regularity and Irregularity of Fiber Dimensions of Non-Autonomous Holomorphic Dynamical Systems
- 11:15–11:30 *Break*
- 11:30–12:20 **Jeremy Kahn** (The Graduate Center, CUNY)
Geometric Limits and Renormalization

Thursday April 11, 2013

- 8:00–9:00 *Continental Breakfast*
- 9:00–9:50 **Bill Goldman** (University of Maryland)
Geometry and Dynamics of Flat Lorentzian 3-Manifolds
- 10:00–10:15 *Break*
- 10:15–11:05 **Anna Wienhard** (Princeton University)
Aspects of Anosov Representations
- 11:15–11:30 *Break*

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- 11:30 *Junior Participant Presentations*
- 11:30–11:50 **Anton Lukyanenko** (University of Illinois at Urbana-Champaign)
Continued Fractions on the Heisenberg Group
- 12:00–12:20 **Ilya Gekhtman** (University of Chicago)
Patterson-Sullivan Theory for Subgroups of Mapping Class Groups and Orbit Growth in Teichmüller Space
- 12:30–2:30 *Lunch (on your own)*
- 2:30–3:20 **Dragomir Saric** (Queens College, CUNY)
Deformations of Hyperbolic Structures Using Shears
- 3:30–4:00 *Break*
- 4:00–4:50 **John Pardon** (Stanford University)
Totally Disconnected Groups (not) Acting on Three-Manifolds

Friday April 12, 2013

- 8:00–9:00 *Continental Breakfast*
- 9:00–9:50 **Lewis Bowen** (University of Texas at Austin)
Cheeger Constants and L^2 Betti Numbers
- 10:00–10:15 *Break*
- 10:15–11:05 **Boris Kalinin** (Pennsylvania State University)
Linear and Isometry Cocycles over Hyperbolic Systems
- 11:15–11:30 *Break*
- 11:30–12:20 **Chris Bishop** (SUNY Stony Brook)
Quasiconformal Folding
- 12:30–2:30 *Lunch (on your own)*
- 2:30 *Junior Participant Presentations & Problem Sessions (TBA)*
- 2:30–5:00 *TBA*

