

Zariski-dense Subgroups

Monday February 9, 2015

- 8:00–8:50 *Check-In/Light Breakfast (Hosted by IPAM)*
- 8:50–9:00 *Welcome and Opening Remarks*
- 9:00–9:50 **Emmanuel Breuillard** (Université Paris-Sud (Orsay))
Super-strong approximation I
- 10:00–10:50 **Ted Chinburg** (University of Pennsylvania)
Azumaya algebras associated to knot groups
- 11:00–11:30 *Break*
- 11:30–12:20 **Hee Oh** (Yale University)
Generalization of Selberg's 3/16 theorem for thin groups and semi-groups
- 12:30–2:00 *Lunch (on your own)*
- 2:00–2:50 **Peter Sarnak** (Institute for Advanced Study)
The Solovay-Kitaev Theorem revisited
- 3:00–3:50 **Anna Wienhard** (University of Heidelberg)
Anosov representations
- 4:00–4:30 *Break*
- 4:30–5:20 **Alexander Lubotzky** (Hebrew University)
Arithmetic quotients of the mapping class group
- 5:30–7:00 *Poster Session & Reception (Hosted by IPAM)*

Tuesday February 10, 2015

- 8:00–9:00 *Check-In/Breakfast (Hosted by IPAM)*
- 9:00–9:50 **Emmanuel Breuillard** (Université Paris-Sud (Orsay))
Super-strong approximation II
- 10:00–10:50 **Yehuda Shalom** (Tel Aviv University)
Some problems conjectures and results on commensurators and commensurated subgroups of arithmetic groups
- 11:00–11:30 *Break*

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- 11:30–12:20 **Madhav Nori** (University of Chicago)
Closed subgroups of $GL_n(\widehat{\mathbb{Z}})$
- 12:30–2:00 *Lunch (on your own)*
- 2:00–2:50 **Sug Woo Shin** (University of California, Berkeley (UC Berkeley))
Transfer of automorphic representations between inner forms I
- 3:00–3:50 **Tyakal Venkataramana** (Tata Institute of Fundamental Research)
Monodromy and Arithmetic/Thin Groups
- 4:00–4:30 *Break*
- 4:30–5:20 **Martin Kassabov** (Cornell University)
Groups Graded by Roots Systems and Property T

Wednesday February 11, 2015

- 8:00–9:00 *Check-In/Breakfast (Hosted by IPAM)*
- 9:00–9:50 **Ben McReynolds** (Purdue University)
Spectra in Geometry and Effective Rigidity Results I
- 10:00–10:50 **Chen Meiri** (Technion - Israel Institute of Technology)
Infinite index maximal subgroups of $SL(n, \mathbb{Z})$
- 11:00–11:30 *Break*
- 11:30–12:20 **Alex Kontorovich** (Rutgers University)
Applications of Thin Orbits
- 12:30–2:00 *Lunch (on your own)*
- 2:00–2:50 **Sug Woo Shin** (University of California, Berkeley (UC Berkeley))
Transfer of automorphic representations between inner forms II
- 3:00–3:50 **Igor Rapinchuk** (Harvard University)
The genus of a division algebra
- 4:00–4:30 *Break*
- 4:30–5:20 **Vladimir Chernousov** (University of Alberta)
Simple algebraic groups and their maximal tori

Thursday February 12, 2015

- 8:00–9:00 *Check-In/Breakfast (Hosted by IPAM)*
- 9:00–9:50 **Ben McReynolds** (Purdue University)
Spectra in Geometry and Effective Rigidity Results II
- 10:00–10:50 **Ralf Spatzier** (University of Michigan)
Smooth Factors of Projective Actions of Higher Rank Lattices and Rigidity
- 11:00–11:30 *Break*
- 11:30–12:20 **Elena Fuchs** (University of Illinois at Urbana-Champaign)
Deterministic and probabilistic aspects of thin groups
- 12:30–2:00 *Lunch (on your own)*
- 2:00–2:50 **Robert Guralnick** (University of Southern California (USC))
Strongly Dense Subgroups of Semisimple Algebraic Groups
- 3:00–3:50 **Igor Rivin** (Temple University)
How dense is dense, or: computing in linear groups
- 4:00–4:30 *Break*
- 4:30–5:20 **Philippe Gille** (University of Lyon, France, and IMAR, Bucharest, Romania)
Topological properties of torsors and homogeneous spaces over valued fields

Friday February 13, 2015

- 8:00–9:00 *Check-In/Breakfast (Hosted by IPAM)*
- 9:00–9:50 **Matthew Stover** (Temple University)
The geometry of Cartwright and Steger's surface
- 10:00–10:50 **Bertrand REMY** (École Polytechnique)
On some pro- p groups arising from Lie theory
- 11:00–11:30 *Break*
- 11:30–12:20 **Alireza Golesefidy** (University of California, San Diego (UCSD))
Expansion properties of linear groups and affine sieve
- 12:30–1:20 **Dave Witte Morris** (University of Lethbridge)
Arithmetic subgroups whose representations all map into $GL_n(\mathbb{Z})$

