

New Methods for Zimmer's Conjecture

Monday January 22, 2018

- 8:00–8:50 *Check-In/Light Breakfast (Hosted by IPAM)*
- 8:50–9:00 *Welcome and Opening Remarks*
- 9:00–9:50 **Federico Rodriguez Hertz** (Pennsylvania State University)
Global rigidity of Anosov actions of higher rank lattices
- 10:00–10:30 *Break*
- 10:30–11:20 **Aaron Brown** (University of Chicago)
Zimmer's conjecture for actions of cocompact lattices (Part I)
- 11:30–12:20 **Mikael De La Salle** (École Normale Supérieure de Lyon)
Lafforgue's strong property (T) (Part I)
- 12:30–2:30 *Lunch (on your own)*
- 2:30–3:20 **Jairo Bochi** (Pontificia Universidad Catolica de Chile)
Flexibility of Lyapunov Exponents
- 3:30–4:00 *Break*
- 4:00–4:50 **Clark Butler** (University of Chicago)
Measurable rigidity of the Livsic equation for linear cocycles

Tuesday January 23, 2018

- 8:00–9:00 *Continental Breakfast*
- 9:00–9:50 **Bassam Fayad** (Institut Mathématiques de Jussieu/Paris 6)
Limit laws in Diophantine approximations
- 10:00–10:30 *Break*

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- 10:30–11:20 **Mikael De La Salle** (École Normale Supérieure de Lyon)
Lafforgue's strong property (T) (Part II)
- 11:30–12:20 **Amir Mohammadi** (University of California, San Diego (UCSD))
Effective results in homogeneous dynamics
- 12:30–2:30 *Lunch (on your own)*
- 2:30–3:20 **Zhenqi Wang** (Michigan State University)
Cohomological equation and cocycle rigidity of discrete parabolic actions in some higher rank Lie groups
- 3:30–4:00 *Break*
- 4:00–4:50 **Manfred Einsiedler** (ETH Zurich)
Measure Rigidity for diagonalizable flows

Wednesday January 24, 2018

- 8:00–9:00 *Continental Breakfast*
- 9:00–9:50 **Bertrand Deroin** (Centre National de la Recherche Scientifique (CNRS))
Orderability of higher rank lattices
- 10:00–10:30 *Break*
- 10:30–11:20 **Aaron Brown** (University of Chicago)
Zimmer's conjecture for actions of cocompact lattices (Part II)
- 11:30–12:20 **Kathryn Mann** (Brown University)
Rigidity and geometricity for surface group actions
- 12:30–2:30 *Lunch (on your own)*
- 2:30–3:20 **Sebastian Hurtado Salazar** (University of Chicago)
Zimmer's conjecture for $SL_m(\mathbb{Z})$:
- 3:30–4:00 *Break*
- 4:00–5:00 **David Fisher** (Indiana University)
Future directions and open problems
- 5:00–6:30 *Reception and continued discussion*

Thursday January 25, 2018

- 8:00–9:00 *Continental Breakfast*
- 9:00–9:50 **Uri Bader** (Weizmann Institute of Science)
Margulis' and Zimmer's Super-Rigidity and some of their extensions
- 10:00–10:30 *Break*
- 10:30–11:20 **Maria Beatrice Pozzetti** (Ruprecht-Karls-Universität Heidelberg)
Maximal representations
- 11:30–2:00 *Lunch (on your own)*
- 2:00–2:50 **Dave Witte Morris** (University of Lethbridge)
Efficient bounded generation by subgroups of Q -rank one
- 3:00–3:30 *Break*
- 3:30–4:20 **Yehuda Shalom** (Tel Aviv University)
New methods for the (Margulis-)Zimmer conjecture
- 5:00–6:00 **Narutaka Ozawa** (Kyoto University)
UCLA Math Department Colloquium - $\text{Aut}(F_5)$ has the property (T)

Friday January 26, 2018

- 8:00–9:00 *Continental Breakfast*
- 9:00–9:50 **Zhiren Wang** (Pennsylvania State University)
A criterion for existence of invariant probability measures under lattice actions
- 10:00–10:30 *Break*
- 10:30–11:20 **Jesse Peterson** (Vanderbilt University)
Poisson boundaries of II_1 factors
- 11:30–12:20 **Adrian Ioana** (University of California, San Diego (UCSD))
Cocycle superrigidity for translation actions of product groups

