

Measurability, Ergodic Theory and Combinatorics

8-12 July 2019

Organisers: Miklós Abért, Tim Austin, András Máthé and Oleg Pikhurko

PROGRAMME

All lectures will be in Room MS.01, Mathematics Institute

Monday 8 July

- 10:00 Registration (Room B1.37) and coffee in the Mathematics Institute Staff Common Room
- 11:00 **Joel Moreira** (Northwestern University)
- 12:00 Ben Green (University of Oxford)
- 13:00 Lunch in the Mathematics Institute Staff Common Room
- 14:30 Andreas Thom (TU Dresden)
- 15:30 Coffee break in the Mathematics Institute Staff Common Room
- 16:00 Vitaly Bergelson (Ohio State University) Polynomial Ramsey Theory
- 17:00 Open problem session
- 18:00 Reception and dinner in the Mathematics Institute Staff Common Room

Tuesday 9 July

- 9:30 Clinton Conley (Carnegie Mellon University) Equitable colorings
- 10:30 Coffee break in the Mathematics Institute Staff Common Room
- 11:00 Andrew Marks (UCLA)

- Measurable realizations of abstract systems of congruences
- 12:00 Robin Tucker-Drob (Texas A&M University) TBD
- 13:00 Lunch in the Mathematics Institute Staff Common Room
- 14:30 Anush Tserunyan (University of Illinois at Urbana-Champaign) TBD
- 15:30 Coffee break in the Mathematics Institute Staff Common Room
- 16:00 Damien Gaboriau (ENS Lyon)
- dimensional manifolds

On IRS of surface groups and higher

A sumset conjecture of Erdös

Obstructions to stability

Monochromatic sums and products

- 17:00 Łukasz Grabowski (Lancaster Unversity) Almost finite actions of non-amenable groups
- 18:00 Dinner in the Mathematics Institute Staff Common Room

Continued over

For further information on events at the Mathematics Institute, see: go.warwick.ac.uk/mathsevents or contact: Mathematics Research Centre, Zeeman Building, University of Warwick, Coventry CV4 7AL, UK E-mail: mrc@maths.warwick.ac.uk Phone: +44(0)24 7652 2681



PROGRAMME cont.

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Wednesday 10 July Nikolay Nikolov (University of Oxford) 9:30 Gradients in discrete and profinite groups 10:30 Coffee break in the Mathematics Institute Staff Common Room 11:00 **Tamar Ziegler** (Hebrew University) Sections of high rank varieties and application 12:00 Lunch & free afternoon (discussions, group work, hiking trip, etc) 19:00 Workshop dinner (Radcliffe) Thursday 11 July 9:30 **Gábor Elek** (Lancaster Unversity) Continuous graph limits and the spaces of Cantor actions 10:30 Coffee break in the Mathematics Institute Staff Common Room 11:00 **Gábor Kun** (Alfréd Rényi Institute) Nonamenable groups that do not admit a sofic approximation by expanders 12:00 Ágnes Backhausz (Eötvös Loránd University) Action convergence of operators and graphs 13:00 Lunch in the Mathematics Institute Staff Common Room 14:30 **Tom Sanders** (University of Oxford) Bootstrapping partition regularity of linear systems 15:30 Coffee break in the Mathematics Institute Staff Common Room 16:00 Tianyi Zheng (UCSD) The double commutator lemma for IRSs Phase transitions in the independent sets of 17:00 Endre Csóka (Alfréd Rényi Institute) random graphs 18:00 Dinner in the Mathematics Institute Staff Common Room Friday 12 July 9:30 **Brandon Seward** (Courant Institute) Borel asymptotic dimension and hyperfinite equivalence relations 10:30 Coffee break in the Mathematics Institute Staff Common Room 11:00 **Lewis Bowen** (University of Texas at Austin) A topological dynamical system with two

12:00 **Hanfeng Li** (SUNY at Buffalo) *Entropy and combinatorial independence* 13:00 Lunch in the Mathematics Institute Staff Common Room & free time

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