

Ergodic Theory: Numbers, Fractals, and Geometry
September 24 – 28, 2017

Schedule

Sunday, September 24 – L3

- 10:30-11:00 Registration
11:00-12:00 Nalini Ananramathan, *Quantum ergodicity on graphs: spectral and spatial delocalization*
12:00-14:45 Lunch
14:45-15:45 Tim Austin, *Measure concentration and the weak Pinsker property*
15:45-16:15 Break
16:15-17:15 Lewis Bowen, *A counterexample to the Weak Pinsker conjecture for free group actions*

Monday, September 25 – L1

- 9:15-10:15 Elon Lindenstrauss, *Random walks on homegenous spaces*
10:15-10:45 Coffee
10:45-11:45 Corinna Ulcigrai, *On Birkhoff sums and Roth type conditions for interval exchange transformations*
12:00-14:45 Lunch
14:45-15:45 Jean-François Quint, *Limit theorems for the spectral radius*
15:45-16:15 Coffee
16:15-17:15 Pablo Shmerkin, *Furstenberg's intersection conjecture and self-similar measures*

Tuesday, September 26 – L1

- 9:15-10:15 Péter Varjú, *Full dimension of Bernoulli convolutions*
10:15-10:45 Coffee
10:45-11:45 Hee Oh, *Geometric prime number theorems and fractals*
12:00-14:45 Lunch
14:45-15:45 Jens Marklof, *Higher dimensional Steinhaus problems via homogeneous dynamics*
15:45-16:15 Coffee
16:15-17:15 Alex Kontorovich, *Geometry to arithmetic of crystallographic packings*

Wednesday, September 27 – Clay Research Conference – L1

- 10:00-11:00 Larry Guth, *Introduction to decoupling*
11:00-11:30 Coffee
11:30-12:30 Bertrand Toën, *Algebraic geometry, categories and trace formulas*
12:30-14:00 Lunch
14:00-15:00 Ovidiu Savin, *From second order equations to nonlocal PDEs*
15:00-15:30 Coffee
15:30-16:30 Tamar Ziegler, *Dynamics, arithmetic progressions and approximate cohomology*
16:30-17:30 Presentation of the 2017 Clay Research Awards
17:30-19:00 Reception in the Mathematical Institute

Thursday, September 28 – L1

- 9:15-10:15 Giovanni Forni, *Effective equidistribution by scaling, and number theory*

10:15-10:45 Coffee
10:45-11:45 Alex Gorodnik, *Discrepancy in Diophantine problems*
12:00-14:45 Lunch
14:45-15:45 Emmanuel Breuillard, *Homogeneous dynamics and the subspace theorem*
15:45-16:15 Coffee