

Fractal Geometry and Dynamics

Będlewo, October 12-16, 2015

Programme

All talks will take place in the **lecture room A** (ground floor of the hotel).

Sunday, October 11

18:00 *bus from Poznań Główny Railway Station*

19:00 *dinner*

Monday, October 12

8:00 *breakfast*

9:00 - 9:50 **Károly Simon** (*Budapest University of Technology and Economics*)
Multifractal analysis of some families of random functions motivated
by the study of the network traffic

9:50 - 10:30 *coffee break*

10:30 - 11:20 **Jun Jie Miao** (*East China Normal University*)
TBA

11:30 - 12:00 **Thomas Kempton** (*University of St Andrews*)
Projection theorems for self-affine sets

13:00 *lunch*

15:00 - 15:50 **Antti Käenmäki** (*University of Jyväskylä*)
Geometry of self-affine sets

15:50 - 16:30 *coffee break*

16:30 - 17:20 **Liviana Palmisano**
(*Institute of Mathematics of the Polish Academy of Sciences*)
Hausdorff dimension of non-wandering sets of flat spot circle map

17:30 - 18:00 **Yiwei Zhang**
(*Institute of Mathematics of the Polish Academy of Sciences*)
Ergodic optimization and prevalence

19:00 *dinner*

Tuesday, October 13

- 8:00 *breakfast*
- 9:00 - 9:50 **Esa Järvenpää** (*University of Oulu*)
Random affine code tree fractals without Falconer-Sloan condition
- 9:50 - 10:30 *coffee break*
- 10:30 - 11:20 **Tomas Persson** (*Lund University*)
Shrinking targets in parametrised families
- 11:30 - 12:00 **Polina Vytnova** (*Queen Mary University of London*)
Hausdorff dimension of limit sets using zeta functions
- 12:10 - 12:40 **Magdalena Nowak** (*Jan Kochanowski University in Kielce*)
Self-similar sets from the topological point of view
- 13:00 *lunch*
- 15:00 - 15:50 **Lingmin Liao** (*Université Paris-Est Créteil*)
Diophantine approximation of fractional parts of powers of real numbers
- 15:50 - 16:30 *coffee break*
- 16:30 - 17:20 **Stéphane Seuret** (*Université Paris-Est Créteil*)
Random sparse sampling in a Gibbs weighted tree
- 17:30 - 18:00 **William Mance**
(*Institute of Mathematics of the Polish Academy of Sciences*)
Unexpected distribution phenomenon resulting
from Cantor series expansions
- 19:00 *dinner*

Wednesday, October 14

- 8:00 *breakfast*
- 9:00 - 9:50 **Peter Raith** (*Universität Wien*)
Hausdorff dimension of invariant subsets for certain dynamical systems
- 9:50 - 10:30 *coffee break*
- 10:30 - 11:20 **Fredrik Ekström** (*Lund University*)
Fourier dimension of random images
- 11:30 - 12:00 **Roman Nikiforov** (*National Pedagogical Dragomanov University, Kyiv*)
Infinite IFS and related problems
- 13:00 *lunch*
excursion to the forest
- 18:00 *special dinner*

Thursday, October 15

- 8:00 *breakfast*
- 9:00 - 9:50 **Ai Hua Fan** (*University of Picardie*)
Almost everywhere convergence of ergodic series
- 9:50 - 10:30 *coffee break*
- 10:30 - 11:20 **Jacques Lévy-Véhel**
(*Institut National de Recherche en Informatique et en Automatique*)
Multistable and self-stabilizing processes
- 11:30 - 12:00 **István Kolossváry** (*Budapest University of Technology and Economics*)
On the local Hölder exponents of deRham-like fractal curves
- 13:00 *lunch*
- 15:00 - 15:50 **Krzysztof Barański** (*University of Warsaw*)
Speech commemorating the late Julia Romanowska,
Ph.D. Student of University of Warsaw
- 15:50 - 16:30 *coffee break*
- 16:30 - 17:20 **Balázs Bárány** (*Warwick University*)
Ledrappier-Young formula for self-affine measures in higher dimensions
- 17:30 - 18:00 **Poj Lertchoosakul**
(*Institute of Mathematics of the Polish Academy of Sciences*)
On the exact Hausdorff dimension of the Liouville numbers
in the field of formal Laurent series
- 19:00 *dinner*

Friday, October 16

- 8:00 *breakfast*
- 9:00 - 9:50 **Jörg Schmeling** (*Lund University*)
Everywhere divergence of the one-sided ergodic Hilbert transform
- 9:50 - 10:30 *coffee break*
- 10:30 - 11:20 **Mark Pollicott** (*Warwick University*)
Equidistribution results in negative curvature
- 12:00 *lunch*
- 13:00 *bus to Poznań Główny Railway Station*