

Workshop on Dynamical Systems and Number Theory 2007

July 2 - 6, Strobl (Austria)

Program

supported by the Austrian Science Foundation (FWF)

Monday, July 2

8:45-9:00	Opening
9:00-10:00	Benjamin Weiss A new look at the "Unsolved problems" of Paul R. Halmos
10:00-10:30	Break
10:30-11:00	Fritz Schweiger 2-dimensional continued fraction algorithms as dynamical systems
11:00-11:30	Hitoshi Nakada On the non-monotonicity of the entropy of α -continued fraction transformations
11:30-12:00	Paul Surer Three dimensional symmetric Shift Radix Systems
12:30	Lunch
14:30-15:30	Jon Aaronson Entropy of conservative endomorphisms
15:30-16:00	Break
16:00-16:30	Arno Berger On digits and mantissae in simple dynamical systems
16:30-17:00	Christoph Aistleitner On the discrepancy of $\{n_k x\}$
17:00-17:30	Manfred Madritsch Generating normal numbers over Gaussian integers
18:30	Dinner

Tuesday, July 3

9:00-10:00	Jeffrey C. Lagarias The Skolem-Mahler-Lech theorem and dynamical systems
10:00-10:30	Break
10:30-11:00	Yann Bugeaud On a mixed Littlewood conjecture in Diophantine approximation
11:00-11:30	Johan Nilsson The fine structure of dyadically badly approximable numbers
11:30-12:00	Jörg Schmeling A general concept of Diophantine approximation
12:30	Lunch
14:30-15:30	Michael Keane A conditionally sure ergodic theorem with an application to perco- lation
15:30-16:00	Break
16:00-16:30	Michael Hochman Computational aspects of symbolic dynamics
16:30-17:00	Andrei Khrennikov <i>P</i> -adic dynamical systems: cyclic and ergodic behavior
17:00-17:30	András Biró A note on an ergodic theorem of Bourgain
18:30	Dinner

Wednesday, July 4

9:00-10:00	Yakov Pesin Thermodynamics of towers and the liftability problem
10:00-10:30	Break
10:30-11:00	Mark Pollicott The Selberg zeta function via one dimensional dynamics
11:00-11:30	Richard Miles Dirichlet series for finite combinatorial rank dynamics
12:00	Lunch
13:10	Start of excursion to Schafberg (20 min. walk, transfer by ship, cogwheel railway to Schafberg 1782 m)
19:10	Return to Strobl
19:30	Dinner

Thursday, July 5

9:00-10:00	Anatole Katok Applications of harmonic analysis to measure rigidity for commut- ing automorphisms of the torus
10:00-10:30	Break
10:30-11:00	Christian Steineder A geometric interpretation of the subword complexity
11:00-11:30	Clemens Fuchs Substitutions and the space filling property
11:30-12:00	Valérie Berthé Brun's continued fraction algorithm and discrete geometry
12:30	Lunch
14:30-15:30	Imre Leader The homomorphism problem for $\beta \mathbb{N}$
15:30-16:00	Break
16:00-16:30	Eli Glasner Enveloping semigroups in topological dynamics
16:30-17:00	Marek Lampart Chaos on hyperspaces
17:00-17:30	Fabien Durand Topological factors of self-similar tiling systems
19:00	Conference Dinner

Friday, July 6

- 9:00–10:00 **Imre Ruzsa** Meditations on the Bohr topology
- 10:00-10:30 Break
- 10:30–11:30 Vitaly Bergelson Some recent results and open problems in Ergodic Ramsey Theory
- 12:30 Lunch