

Workshop on
“Complexity and Dimension Theory of
Skew Product Systems”

organized by:

Henk Bruin, Tobias Oertel-Jäger and Roland Zweimüller

September 16 - 20, 2013

• **Monday, September 16, 2013**

09:00 – 09:30 **Opening & Registration**

09:30 – 11:00 **Piotr Oprocha**

Topological Complexity, I

11:00 – 11:30 coffee break

11:30 – 13:00 **Manuel Stadlbauer**

Thermodynamic formalism for fibred systems, I

13:00 – 14:30 lunch break

14:30 – 15:15 **Sergiy Kolyada**

On topological entropy: when positivity implies $+\infty$

15:15 – 16:00 **Louis Block**

Topological entropy of continuous topologically transitive maps of the interval

16:00 – 16:30 coffee break

16:30 – 17:15 **Maik Gröger**

An entropy-like notion for low-complexity systems

• **Tuesday, September 17, 2013**

09:00 – 10:30 **Piotr Oprocha**

Topological Complexity, II

10:30 – 11:00 coffee break

11:00 – 12:30 **Manuel Stadlbauer**

Thermodynamic formalism for fibred systems, II

12:30 – 14:30 lunch break

14:30 – 15:15 **Lubomir Snoha**

Minimal sets of fibre-preserving maps in graph bundles

15:15 – 16:00 **Roman Hric**

Topological sequence entropy

16:00 – 16:30 coffee break

16:30 – 17:15 **Kurt Falk**

Hyperbolic manifolds with dimension gap

- **Wednesday, September 18, 2013**

09:00 – 10:30 **Piotr Oprocha**

Topological Complexity, III

10:30 – 11:00 coffee break

11:00 – 12:30 **Manuel Stadlbauer**

Thermodynamic formalism for fibred systems, III

12:30 – 14:30 lunch break

Afternoon: Free discussion

- **Thursday, September 19, 2013**

09:00 – 10:30 **Fritz Colonius**

Entropy notions in control theory

10:30 – 11:00 coffee break

11:00 – 12:30 **Gerhard Keller**

Bifurcations in chaotically driven maps with multiplicative forcing

12:30 – 14:30 lunch break

14:30 – 15:15 **Katrin Gelfert**

Multiple phase transitions in non-hyperbolic dynamics

15:15 – 16:00 **Lorenzo Diaz**

Robust existence of non-hyperbolic ergodic measures: flip-flops in blenders

16:00 – 16:30 coffee break

16:30 – 17:00 **Matus Dirbak**

Transitive cocycles and minimal extensions

16:30 – 17:00 **Johannes Jaerisch**

Lyapunov spectra for normal subgroups of Kleinian groups

- **Friday, September 20, 2013**

09:00 – 10:30 **Christoph Kawan**

Entropy in Control Theory and Nonautonomous Dynamics

10:30 – 11:00 coffee break

11:00 – 11:45 **Bernd Stratmann**

Extreme Value Laws for Maximal Cuspidal Windings

11:45 – 12:30 **Charlene Kalle**

Local dimensions for the infinite Bernoulli convolution

12:30 – 14:30 lunch break

14:30 – 15:15 **Karoly Simon**

Slices of generalized Sierpinski carpets

15:15 – 16:00 **Tobias Jäger**

Minimal set of torus homeomorphisms

16:00 – 16:30 coffee break

16:30 – 17:15 **Evgeny Verbitskiy**

Expansivity and homoclinic points in algebraic dynamics

All lectures take place in the ESI Boltzmann Lecture Hall