

ESI Workshop on “Periodic Orbits in Dynamical Systems”

May 21 - 25, 2012

Organized by: Michael Baake, Klaus Schmidt, Tom Ward

- **Monday, May 21**

09:30 - 10:30: Alexander Felshtyn

Dynamical zeta functions, topological entropy and Reidemeister torsion

10:30 – 11:00: coffee break

11:00 – 12:00: Franz Gähler

The dynamical zeta function: A powerful tool to understand the topology of a tiling space

12:00 – 14:00: lunch

14:00 – 15:00: Uwe Grimm

Squiral Diffraction

15:00 – 15:30: break

15:30 – 16:30: Anton Gorodetski

Periodic points of the Fibonacci Trace Map

- **Tuesday, May 22**

09:30 - 10:30: Manfred Einsiedler

Effective Equidistribution of closed orbits on homogeneous spaces

10:30 – 11:00: coffee break

11:00 – 12:00: Douglas Lind

Periodic points and entropy for algebraic actions

12:00 – 14:00: lunch

14:00 – 15:00: C. Robinson Edward Raja

Strong relative property and spectral gap for actions on solenoids

15:00 – 15:30: break

15:30 – 16:30: Peter Stollmann

Spectral properties of quasicrystal Laplacians

- **Wednesday, May 23**

09:00 - 10:00: John Roberts

Periodic orbits for the Casati-Prosen map and the gamma distribution

10:00 – 10:30: Natascha Neumärker

The structure of preperiodic orbits of toral endomorphisms on the rational lattices

10:30 – 11:00: coffee break

11:00 – 12:00: Franco Vivaldi

Near-integrable behaviour in a systems with discrete phase space

- **Thursday, May 24**

09:30 - 10:30: Robert Moody

Model sets and dynamical systems

10:30 – 11:00: coffee break

11:00 – 12:00: E. Arthur Robinson

The core of the Kari-Culik shift

12:00 – 14:00: lunch

14:00 – 15:00: David Damanik

The Subshift Conjecture

15:00 – 15:30: break

15:30 – 16:30: John Hunton

The shape of an attractor

- **Friday, May 25**

09:30 - 10:30: Shigeki Akiyama

On shift radix systems

10:30 – 11:00: coffee break

11:00 – 12:00: Jörg Thuswaldner

S-adic Rauzy fractals

12:00 – 14:00: lunch

14:00 – 15:00: Richard Sharp

Pair correlations and length spectra

All lectures take place in the ESI Boltzmann Lecture Hall