

## 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**