

## Workshop on “Dynamics and Number Theory”

October 10 - 14, 2011

Organized by M. Einsiedler, P. Grabner, C. Krattenthaler,  
and T. Ziegler

- **Monday, October 10, 2011**

**10:00 – 11:00: Alexander Gorodnik**

*Spectral gap on homogeneous spaces*

**11:00 – 11:30:** coffee break

**11:30 – 12:30: Jens Marklof**

*Equidistribution in the space of lattices and some recent applications I*

**12:30 – 14:30:** lunch break

**14:30 – 15:30: Elon Lindenstrauss**

*Measure invariant under tori on quotients of semisimple groups*

**15:30 – 16:00:** break

**16:00 – 17:00: Andreas Strömbergsson**

*Effective Ratner equidistribution on  $ASL(2, \mathbb{R})$*

**17:30 Reception:** ESI Common Room

- **Tuesday, October 11, 2011**

**9:30 – 10:30: Alexander Gorodnik**

*Dynamics and Diophantine approximation*

**10:30 – 11:00:** coffee break

**11:00 – 12:00: Jens Marklof**

*Equidistribution in the space of lattices and some recent applications II*

**12:00 – 14:30:** lunch break

**14:30 – 15:30: Alexander Gamburd**

*Generalization of Selberg’s  $3/16$  theorem and affine sieve*

**15:30 – 16:00:** break

**16:00 – 17:00: Boris Adamczewski**

*On the expansion of classical constants in an integer base*

- **Wednesday, October 12, 2011**

**09:00 – 10:00: Uri Shapira**

*Sparse points on horospheres*

**10:00 – 10:20:** coffee break

**10:20 – 11:20: Michael Hochman**

*Equidistribution from fractal measures*

**11:40 – 12:40: Anatole Katok**

*Actions of higher rank Abelian groups: from measure rigidity to arithmeticity to topology*

**Free Afternoon**

- **Thursday, October 13, 2011**

**09:30 – 10:30: Jens Marklof**

*Equidistribution in the space of lattices and some recent applications III*

**10:30 – 11:00:** coffee break

**11:00 – 12:00: Alexander Gorodnik**

*Distribution of integral/rational points on varieties*

**12:00 – 14:30:** lunch break

**14:30 – 15:30: Hee Oh**

*Ergodic properties of unipotent flows on geometrically finite hyperbolic manifolds*

**15:30 – 16:00:** break

**16:00 – 17:00: Péter Varjú**

*Random walks in Euclidean space*

**19:30 Heurigenabend (Conference Dinner):** Heuriger Feuerwehr-Wagner, Grinzingergasse 53, 1190 Wien

- **Friday, October 14, 2011**

**09:30 – 10:30: Yann Bugeaud**

*On the continued fraction expansion of algebraic numbers*

**10:30 – 10:50:** coffee break

**10:50 – 11:50: Adrian Ubis**

*On quantifying Dani's theorem*

**12:10 – 13:10: Dmitry Kleinbock**

*Nondivergence estimates and generalizations of extremality*

**All lectures take place in the ESI Boltzmann Lecture Hall**