

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, GrinzingerstraÙe 53, 1190 Wien

- **Friday, October 14, 2011**

09:30 – 10:30: Yann Bugeaud

On the continued fraction expansion of algebraic numbers

10:30 – 11:00: coffee break

11:00 – 12:00: Adrian Ubis

On quantifying Dani's theorem

12:00 – 14:30: lunch break

14:30 – 15:30: Dmitry Kleinbock

Nondivergence estimates and generalizations of extremality

All lectures take place in the ESI Boltzmann Lecture Hall