PROGRAMME

Monday 20 July 2009

09.30 - 10.00   **Conference opening**
Welcome by organizers

Tea break

10.30 - 11.30   **Marmi, Stefano** (Scuola Normale Superiore di Pisa, Italy & MPI, Germany)
Roth type interval exchange maps

11.40 - 12.40   **Vershik, Anatoly** （St.Petersburg Department of Steklov Institute of Mathematics, Russia)
Arithmetic and dynamics

Lunch

14.00 - 14.50   **Bainbridge, Matthew** (University of Chicago, US & MPI, Germany)
Algebraically primitive Teichműller curves in genus three

15.00 – 16.00   **Deninger, Christopher** (Universität Münster & MPI, Germany)
Noncommutative Mahler measures and Ljapunov exponents

Tea break

16.30 – 17.30   **Marklof, Jens** (University of Bristol, UK & MPI, Germany)
The asymptotic distribution of Frobenius numbers and flows on homogeneous spaces

17.40 - 18.30   **Kontorovich, Alex** (Brown University, US)
On representations of integers in thin subgroups of SL(2,Z)

Tuesday 21 July 2009

09.00 - 09.50   **Bufetov, Alexander** (Rice University, US & MPI, Germany)
Limit theorems for translation flows

Tea break

10.30 - 11.30   **Glasner, Eli** (Tel-Aviv University, Israel & MPI, Germany)
A topological lens for a measure-preserving system

11.40 - 12.40   **Schmidt, Klaus** (University of Vienna, Austria & MPI, Germany)
Mahler measure, a dynamical number

Lunch

14.00 - 14.50   **Zieve, Michael** (Institute for Advanced Study, US)
Intersections of polynomial orbits, and a dynamical Mordell-Lang conjecture

15.00 - 16.00   **Einsiedler, Manfred** (Ohio State University, ETH Zürich & MPI, Germany)
Diophantine approximation on invariant fractals

Tea break

16.30 - 17.30   **Nevo, Amos** (Technion - Israel Institute of Technology & MPI, Germany)
Ergodic theory and lattice points

18.00 –   **Open problems session**

Wednesday 22 July 2009

09.00 - 09.50   **Shapira, Uri** (Hebrew University of Jerusalem, Israel & MPI, Germany)
Applications of rigidity of higher rank hyperbolic actions

Tea break

10.30 - 11.30   **Lindenstrauss, Elon** (Hebrew University of Jerusalem, Israel & MPI, Germany)
Arithmetic combinatorics and effective equidistribution

11.40 - 12.40   **Ugarcovici, Ilie** (DePaul University, US & MPI, Germany)
Structure of attractors for (a,b)-continued fractions, II

Lunch

14.00 – 15.00   **Pollicott, Mark** (University of Warwick, UK & MPI, Germany)
Random matrix products and absolute continuity of the associated measures

15.10 – 16.00   **Solomyak, Boris** (University of Washington, US & MPI, Germany)
Dynamics of self-affine tilings and algebraic number theory

Tea break

20.00 –   **Conference dinner**

Thursday 23 July 2009

09.00 - 09.50   **Wang, Zhiren** (Princeton University, US & HCM, Germany)
A quantitative result on actions of commutative toral automorphisms

Tea break

10.30 - 11.30   **Yoccoz, Jean-Christophe** (Collège de France & MPI, Germany)
Affine interval exchange maps

11.40 - 12.40   **Margulis, Gregori** (Yale University, US)
Distribution of values of indefinite quadratic forms at integral points

Lunch

14.00 – 14.50   **Jones, Rafe** (College of the Holy Cross, US)
                   Galois actions on preimage trees

15.00 – 16.00   **Ulcigrai, Corinna** (University of Bristol, UK & MPI, Germany)
                   Absence of mixing in locally Hamiltonian flows on surfaces

                   Tea break

16.30 – 17.30   **Oh, Hee** (Brown University, US & MPI, Germany)
                   Orbital counting for Thin groups

Friday 24 July 2009

09.00 - 09.50   **Snoha, Lubomir** (Matej Bel University, Slovakia & MPI, Germany)
                   Topology of minimal sets

                   Tea break

10.30 - 11.30   **Gorodnik, Alexander** (University of Bristol, UK & MPI, Germany)
                   Rigidity of actions on algebraic spaces

11.40 - 12.40   **Skau, Christian** (Norwegian University of Science and Technology & MPI,
                   Germany)
                   Orbit equivalence and (ordered) K-theory

                   Lunch

14.00 -   **Boat trip on the Rhine**

Saturday 25 July 2009

Morning   *Departure*