Workshop on Infinite Ergodic Theory

University of Surrey, Monday 28 May - Friday 1 June 2012

Preliminary Schedule   All talks take place in Room 22AA04 in the Department of Mathematics (AA Building, 4th floor)

Monday, 28th May

2.00pm   **Corinna Ulcigrai (Bristol)** Non-ergodicity for the Ehrenfest model and other periodic billiards

3.00pm   **David Ralston (Ben Gurion)** Generic ergodicity of periodic billiards

4.00pm   Coffee/tea

4.30pm   **Domokos Szász (Budapest)** On Dettmann's "horizon" conjectures

Reception

Tuesday, 29th May

10.00am   **Tony Dooley (Bath)** Critical dimension and non-singular ergodic theory

11.00am   **Jean-Pierre Conze (Rennes)** Asymptotic directions of a vectorial cocycle

12noon   Lunch

2.00pm   **Krzysztof Fraczek (Torun)** Ergodic properties of infinite measure-preserving extensions of area-preserving flows

3.00pm   **Mark Pollicott (Warwick)** Distribution of orbits of linear actions on the plane

4.00pm   Coffee/tea

4.30pm   **David Kocheim (Vienna)** CLTs for infinite ergodic transformations and systems with holes

5.00pm   **Mark Holland (Exeter)** On recurrence time statistics and physical observations

Wednesday 30th May

10.00am **Manfred Denker (Penn State)** Ergodic averages of multivariate functions

11.00am **Thierry de la Rue (Rouen)** Krengel vs. Poisson entropy for infinite measure preserving transformations

12noon Lunch

2.00pm **Marco Lenci (Bologna)** Global observables and the question of mixing in infinite ergodic theory

3.00pm **Dalia Terhesiu (Rome)** Sharp mixing rates for infinite measure preserving systems

4.00pm Coffee/tea

4.30pm **Hitoshi Nakada (Yokohama)** On the dual of Rauzy induction

7.30pm Conference dinner

Thursday 31st May

10.00am **Mariusz Lemanczyk (Torun)** Invariant measures for Rokhlin cocycle extensions and non-singular joinings

11.00am **Sasha Danilenko (Ukraine)** Mixing rank-one actions of Heisenberg group

12noon Lunch

2.00pm **Marta Tyran-Kaminska (Silesia)** Convergence to Levy stable processes and inducing

3.00pm Hike $\longrightarrow$ pub

Friday 1st June

10.00am **Zemer Kosloff (Tel Aviv)** Maharam extensions of nonsingular Bernoulli shifts

11.00am **Jon Aaronson (Tel Aviv)** Limit theory for stationary processes via Darling-Kac: an update