Statistical Properties of Nonequilibrium Dynamical Systems July 27 – August 2, 2016

Conference Schedule

Wednesday, July 27

8:00 – 8:30 a.m.	Check-in and Registration
8:30 – 9:00 a.m.	Welcoming Remarks
9:00 – 9:50 a.m.	Leonid Bunimovich, Georgia Tech When and where orbits of extremely chaotic systems prefer to go
9:55 – 10:45 a.m.	Mark Pollicott, University of Warwick Asymptotic escape rates for one-dimensional maps
10:45 – 11:15 a.m.	Break
11:15 – 12:05 p.m.	Federico Rodriguez-Hertz, Penn State, <i>Measure and smooth rigidity of higher rank actions.</i>
12:05 – 2:00 p.m.	Lunch
2:00 – 2:40 p.m.	Yunping Jiang, Queen's College, CUNY Ruelle's Transfer Operators and Decay of Correlations for Uniformly and Non-Uniformly Expanding Dynamical Systems
2:55 – 3:35 p.m.	Nicolai Haydn, University of Southern California Entry and Return Times for Bowen Balls
3:35 – 4:00 pm	Break
4:00 – 4:40 p.m.	Marco Lenci, Universita di Bologna, Uniformly expanding Markov maps of the real line: exactness and infinite mixing
4:45 – 5:25 p.m.	Raul Ures, Universidad de la Republica – Uruguay & Southern University of Science and Technology, <i>Ergodicity and partial</i> <i>hyperbolicity on unit tangent bundles of surfaces</i>
Remark: Conferenc Parallel Se Dining Hal	e room is Teaching Building #1, Room 107; ection I is Teaching Building #1, Room 107; Section II is Room 110 Il is located at Guest House 1, first floor.

Thursday, July 28

8:20 – 9:10 a.m.	Dmitry Dolgopyat, University of Maryland Limit Theorems for Random Walk in Random Environment on a strip
9:20 – 10:10 a.m.	Jean-Pierre Conze, University of Rennes Limit theorems for multi-dimensional actions on some algebraic models
10:10-10:35 am	Break
10:35 – 11:15 a.m.	Richard Sharp, University of Warwick Fluctuation theorems with shrinking intervals
11:20 – 12:00 p.m.	Peter Balint, Budapest University of Technology, Mean field coupling of doubling maps
12:00– 2:00 p.m.	Lunch
2:00 – 6:00 p.m.	Parallel Session I
2:00 – 2:40 p.m	a. Paul Jung, University of Alabama at Birmingham A Stable Limit Theorem for Billiards with Cusps
2:45 –3:25 p.m	Mark Demers, Fairfield University Exponential decay of correlations for Sinai billiard flows
3:30 – 4:00 p.m.	. Break
4:00 – 4:35 p.m	Peter Nandori, University of Maryland
	Toward the rare interaction limit of some hard ball systems
4:40 – 5:15 p.m	Christopher Cox, Washington University in St. Louis
5·20 - 5·55 n m	Fan Yang HERI/IMPA
5.20 5.55 p.m.	Decay of correlation for DA maps with measure of maximum entropy
2:00 – 6:10 p.m.	Parallel Session II
2:00 – 2:40 p.m.	Cecilia Gonzalez-Tokman, University of Queensland
-	Non-autonomous dynamical systems and multiplicative ergodic theorems
2:45 – 3:25 p.m	Xueting Tian, Fudan University, Specification <i>in Dynamical Systems</i> with certain Hyperbolicity and Applications
4:00 – 4:35 p.m	Pengfei Zhang, University of Mississippi Homoclinic Intersections for Geodesic Flows on Convex Spheres
4:40 – 5:15 p.m	Dmitry Todorov, University of Aix-Marseille
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Friday, July 29

8:10 – 9:00 a.m.	Lan Wen, Peking University A review on the stability and density problems
9:05 – 9:55 a.m.	Carlangelo Liverani, University of Rome Fast-Slow partially hyperbolic systems
9:55 – 10:20 am	Break
10:20 – 11:10 a.m.	Sandro Vaienti, University of Toulon and CPT Marseille A few limit theorems for non-autonomous dynamical systems
11:15 – 12:05 p.m.	Konstantin Khanin, University of Toronto On global solutions to the parabolic Anderson model
12:05– 2:00 p.m.	Lunch
2:00 – 2:50 p.m.	Yiming Long, Nankai University Periodic solutions of the generalized anisotropic Lennard-Jones systems in R^n
2:55 – 3:45 p.m.	Keith Burns, Northwestern University Unique equilibrium states for geodesic flows in nonpositive curvature
3:45 – 4:15 p.m.	Break
4:15 – 5:05 p.m.	Zhihong Jeff Xia, Northwestern University & Southern University of Science and Technology; Bifurcation <i>and stability using Conley – Zehnder index.</i>
5:10	Group photo
6:00	Banquet in honor of Prof Lan Wen; Prof. Keith Burns; Prof. Konstantin Khanin; Prof. Carlangelo Liverani; Prof. Sandro Vaienti, for their birthdays.

Saturday, July 30

8:30 – 9:10 a.m.	Federico Bonetto, Georgia Tech,TBA
9:15 – 9:55 a.m.	Gary Froyland, University of New South Wales Transfer operator co-cycle analysis of non-autonomous dynamical Systems
9:55 – 10:25 a.m.	Break
10:25 – 11:05 a.m.	Carlos Vasquez, Pontificia Universidad Católica de Valparaiso <i>On the non-robustness of intermingled basins</i>
11:10 – 11:50 a.m.	Parallel Session I
11:10 – 11:50 a.m.	Michele Gianfelice, University of Calabria, <i>Some results on the asymptotic behaviour of finite connection</i> probabilities <i>in percolation and related models</i>
11:10 – 11:50 a.m.	Parallel Session II
11:10 – 11:50 a.m.	Yanxia Deng, Queen's University, Stability of periodic orbits by Conley-Zehnder index theory

Monday, August 1

8:10 – 9:00 a.m.	Amie Wilkinson, University of Chicago, TBA
9:05 – 9:55 a.m.	Xiangdong Ye, University of Science and Technology of China Around the pointwise convergence of multiple ergodic averages
9:55 – 10:20 a.m.	Break
10:20 – 11:10 a.m.	Renato Feres, Washington University in St. Louis Geometry and dynamics of no-slip billiards
11:15 – 12:05 a.m.	Ian Melbourne, University of Warwick The Lorenz attractor is exponentially mixing
12:05 – 2:00 p.m.	Lunch
2:00 – 6:05 p.m	Parallel Session I
2:00 –2:40 p.m	Benjamin Webb, Bringham Young University, Self-Limiting Motion of a Particle Moving Deterministically in Random Media
2:45 – 3:25 p.m.	Yao Li, University of Massachusetts, Amherst Polynomial convergence to nonequilibrium steady-state
3:25 - 3:55	Break
3:55 – 4:35 p.m.	Alex Grigo, University of Oklahoma
4:40 – 5:20 p.m.	Maria Fatima Correia, Universidade de Évora, Ergodicity and periodic orbits of a two-parameter family of billiards
5:25 - 6: 05	Jianyu Chen, University of Massachusetts, Amherst Statistical Properties of One-dimensional Expanding Maps with Poor Singularities
2:00 – 6:05 p.m.	Parallel Session II
2:00 – 2:40 p.m.	Ke Zhang, University of Toronto Pandom Hamiltonian systems and Hamilton-Jacobi equations
2:45 – 3:25 p.m.	Dawei Yang, Soochow University
3:55 – 4:35p.m.	Radu Saghin, Pontificia Universidad Catolica de Valparaiso, <i>Invariant</i>
4:40 – 5:20 p.m.	Davor Dragicevic, University of New South Wales, Hölder continuity of Oseledets splitting for semi-invertiblle operator cocycles

Tuesday, August 2

8:10 – 9:00 a.m.	Christopher Bose, University of Victoria, Canada, <i>Exact mixing</i> asymptotics and limit laws for random intermittent maps
9:05 – 9:55 a.m.	Weinian Zhang, Sichuan University Roughness of Tempered Exponential Dichotomies
9:55 – 10:25 a.m.	Break
10:25 – 11:15 a.m.	Dan Thompson, Ohio State University Uniqueness of equilibrium states for geodesic flows
11:15 – 12:05 p.m.	Wael Bahsoun, Loughborough University Linear response for non-uniformly expanding maps