

Curriculum Vitae of Péter Bálint

June 2010

Born:

Budapest, July 30, 1974

Education:

- 1997 MSc in Physics, Eötvös University, Budapest
Advisor: László B. Szabados
Thesis: Investigation of Canonical Quantization Techniques in Simple Systems
- 2003 PhD in Mathematics, Eötvös University, Budapest
Advisor: Domokos Szász
Thesis: Some Geometric Aspects of Multi-dimensional Hyperbolic Billiards

Work Experience:

- 2000–2003, MTA Rényi Institute of Mathematics, Budapest; MTA “young researcher fellow”
- 2003 May– 2004 August, Centre de Physique Théorique, Marseille, France; Centre National de la Recherche Scientifique postdoctoral fellow
- 2004 – 2008 , BME Institute of Mathematics, Department of Differential Equations, assistant professor
- 2006 September – December, Courant Institute, New York University, New York, USA; Courant Instructor
- 2008 –, BME Institute of Mathematics, Department of Differential Equations, associate professor

Awards, grants:

- PhD grant of the Soros Foundation; 2000 September – 2001 August
- Grünwald Géza medallion of the Bolyai János Mathematical Society ; 2001
- MTA Bolyai Scholarship; 2005 September – 2008 August
- OTKA F60206 young researcher grant, 2006–2009
- Annales Henri Poincaré Prize, 2008, for the publication Péter Bálint, Imre Péter Tóth: *Exponential decay of correlations in multi-dimensional dispersing billiards*; Annales Henri Poincaré, 9 (2008) 1309–1369.
- MTA Bolyai plaque, 2009
- MTA Bolyai Scholarship (awarded for the second time); 2009 September – 2012 August
- BME Faculty of Sciences, Distinguished Lecturer of the Faculty, 2010

Conference and Seminar talks (selection):

- Seminar on Dynamical systems at BME Institute of Mathematics and at Rényi Institute – approximately annually since 1998;
- 1999 august; AMS Summer Institute on Smooth Ergodic Theory and Applications; Seattle, WA, USA;
- 2000 november, AMS Sectional Meeting, Session on Billiards and Related Topics; Birmingham, AL, USA;
- 2001 august, School and Workshop on Dynamical Systems, Abdus Salam ICTP, Trieste, Italy;
- 2002 january, Workshop on Chaotic and Conservative Dynamics (Summer Post-doctoral Program), IMPA, Rio de Janeiro, Brasil;
- 2002 august, Workshop and Seminar on Microscopic Chaos and Many-Particle Systems; MPIPKS Dresden, Germany;
- Seminars at Institut de Mathématiques de Luminy and at Centre de Physique Théorique, Marseille, France; several occasions, 2003–2004;
- 2004 february, Institut de Mathématiques de Jussieu, Géométrie et Dynamique, Séminaire de Systèmes Dynamiques; Paris, France
- 2004 may, Conference on Multidimensional Non-uniformly Hyperbolic Dynamical Systems, CIRM, Marseille, France
- 2005 february, Mathematics Colloquium, Department of Mathematics, University of Alabama at Birmingham; Birmingham, AL, USA
- 2005 may, Conference on Recent and Future Developments in Hamiltonian Systems (Trimester “Time at Work”), Institut Henri Poincaré; Paris, France
- 2006 october, Dynamical Systems Seminar at Courant Institute, New York University; New York, NY, USA;
- 2006 november, Princeton University, Ergodic Theory and Statistical Mechanics Seminar; Princeton, NJ, USA
- 2006 december, Pennsylvania State University, Center for Dynamics and Geometry Seminar; State College, PA, USA
- 2007 july, Mathematisches Forschungsinstitut Oberwolfach, Dynamische Systeme Workshop; Oberwolfach, Germany
- 2007 august, Equadiff conference, Global dynamics beyond uniform hyperbolicity: rates of mixing and statistical properties minisymposium; Technische Universität Wien, Vienna, Austria
- 2008 april, One day ergodic theory meeting; University of Surrey, Guildford, Great Britain
- 2008 june, ESI semester on Hyperbolic Dynamical Systems, minicourse on multidimensional dispersing billiards; Erwin Schrödinger Institute for Mathematical Physics, Vienna, Austria
- 2010 may, INdAM meeting on Hyperbolic Dynamical Systems in the Sciences, Corinaldo, Italy

- 2010 june, Mathematical Billiards and their Applications, University of Bristol, Great Britain

Conference organization:

- Randomness and Hyperbolicity in Dynamical Systems konferencia, 2006 august, Budapest;

Refereeing:

- Regularly for international Journals (Communications in Mathematical Physics, Journal of Statistical Physics, Discrete and Continuous Dynamical Systems, Nonlinearity, Annales Henri Poincaré, Ergodic Theory and Dynamical Systems etc.)
- AMS Mathematical Reviews reviewer since 2005 january

Teaching experience:

- In Hungarian: Calculus I-II-III (including eg. vector calculus, elementary complex variables and ODE), Probability Theory, Ergodic Theory and Dynamical Systems (BME)
- In English: Calculus (New York University), Ergodic Theory (Central European University, Budapest)

List of publications:

available at <http://www.math.bme.hu/~pet>