Curriculum Vitae of Péter Bálint

September 2018

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 – 2014, BME Institute of Mathematics, Department of Differential Equations, associate professor

- 2012 – MTA-BME Stochastics Research Group, senior research fellow

- 2013 September – 2014 August, MTA Rényi Institute of Mathematics, Budapest; visiting research fellow

- 2014 – BME Institute of Mathematics, Department of Stochastics, 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 Scolarship; 2005 September – 2008 August

- OTKA F60206 young researcher grant, 2006–2009

- MTA Bolyai plaquette, 2009

- MTA Bolyai Scholarship (awarded for the second time); 2009 September – 2012 August

- BME Faculty of Sciences, Distinguished Lecturer of the Faculty, 2010

- MTA Section of Mathematics, György Alexits Prize, 2011

- Annales Henri Poincaré Prize, 2012, for the publication Péter Bálint, Imre Péter Tóth: *Exponential decay of correlations in multi-dimensional dispersing billiards*; Annales Henri Poincaré, 9 (2008) 1309–1369.

- BME Faculty of Sciences, Distinguished Lecturer of the Faculty (awarded for the second time), 2016

Conference and Seminar talks (selection):

- 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, Mathematishces Forschunginstitut Oberwolfach, Dynamische Systeme Workshop; Oberwolfach, Germany

- 2007 August, Equadiff conference, Global dynamics beyond uniform hyperbolicity: rates of mixing and statistical properties minisymposium; Technische Universitat Wien, Vienna, Austria

- 2008 April, One day ergodic theory meeting; University of Surrey, Guildford, UK

- 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, UK

- 2011 June, Thematic Program on Dynamics and Transport in Disordered Systems, Workshop on Billiard Models in Classical Mechanics, Fields Institute, Toronto, Canada

- 2012 April, Ergodic Theory and Dynamical Systems: Perspectives and Prospects, University of Warwick, United Kingdom

- 2012 October, Seminar on Ergodic Theory and Dynamical Systems, Ergodic Theory and Dynamical Systems, University of Bristol, United Kingdom

- 2013 January, BudWiSer (the joint Budapest-Vienna Dynamics Seminar series), University of Vienna, Austria

- 2013 June, Semester on Hyperbolic Dynamics, Large Deviations and Fluctuations; Workshop on Limit theorems for Dynamical Systems, EPFL Lausanne, Switzerland

- 2014 January, Seminar on Ergodic Theory, University of Vienna, Austria

- 2014 April, Seminar on Ergodic Theory and Dynamical Systems, University of Warwick, UK

- 2014 September, BudWiSer (the joint Budapest-Vienna Dynamics Seminar series), BME Budapest, Hungary

- 2015 May, The Dynamical Systems, Egodic Theory, and Probability conference dedicated to the memory of Nikolai Chernov, University of Alabama at Birmingham; Birmingham, AL, USA

- 2015 July, Conference on Dynamical Systems, Prague, Czech Republic

- 2016 February, Seminar on Dynamical systems, University of Warwick, UK

- 2016 February, Seminar on Dynamical systems, Imperial College London, UK

- 2016 July, International Conference on Statistical Properties of Nonequilibrium Dynamical Systems, Shenzhen, China

- 2016 November, Journées de dynamique, Paris 6-7, France

- 2016 December, BudWiSer (the joint Budapest-Vienna Dynamics Seminar series), University of Vienna, Austria

- 2017 February, Conference on Non Uniformly Hyperbolic Dynamical Systems. Coupling and Renewal Theory; CIRM, Marseille, France

- 2017 March, Conference on Aspects of Dynamical Systems, Imperial College London, UK

- 2017 March, Seminar on Dynamical Systems, ETH Zürich, Switzerland

- 2018 March, Conference on New Developments in Open Dynamical Systems and Their Applications, BIRS, Banff, Canada

- 2018 September, Dynamics Days Europe, University of Loughborough, UK

Conference organization:

- Conference on Randomness and Hyperbolicity in Dynamical Systems, 2006 August, Budapest;

- Thematic Program on Mixing Flows and Averaging methods, 2016 April-May, Erwin Schrödinger Institute, Vienna, Austria;

- Conference on Hyperbolic Dynamics and Statistical Physics, 2016 May, Erwin Schrödinger Institute, Vienna, Austria

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, elements of real and complex analysis, ODE and PDE), Probability Theory, Ergodic Theory and Dynamical Systems (BME)

- In English: Calculus (New York University), Ergodic Theory (Central European University, Budapest), Probability Theory (Budapest Semesters in Mathematics)

List of publications:

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