



First Palis-Balzan International Symposium on Dynamical Systems

IMPA, Rio de Janeiro, Brazil
June 25th to 29th, 2012

CERTIFICATE

We hereby certify that, *Alejandro Kocsard*, Universidade Federal Fluminense, participated in the First Balzan International Symposium on Dynamical Systems held at Instituto de Matemática Pura e Aplicada - IMPA, Rio de Janeiro - RJ, from June 25 to 29, 2012 and presented the following work: “*Distributionally uniquely ergodic diffeomorphisms*”

Rio de Janeiro, June 29, 2012.

Jacob Palis
Organizing Committee



Partially supported by the Balzan Research Project of J.Palis.



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We hereby certify that, *Alvaro Rovella*, Centro Matemática - Universidad de la Republica, participated in the First Balzan International Symposium on Dynamical Systems held at Instituto de Matemática Pura e Aplicada - IMPA, Rio de Janeiro - RJ, from June 25 to 29, 2012 and presented the following work: “*Structural stability in dimension two*”

Rio de Janeiro, June 29, 2012.

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We hereby certify that, *Andres Koropecki*, Universidade Federal Fluminense, participated in the First Balzan International Symposium on Dynamical Systems held at Instituto de Matemática Pura e Aplicada - IMPA, Rio de Janeiro - RJ, from June 25 to 29, 2012 and presented the following work: “*Prime ends rotation number and periodic points*”

Rio de Janeiro, June 29, 2012.

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We hereby certify that, *Artur Avila*, Univ. Pierre et Marie Curie, participated in the First Balzan International Symposium on Dynamical Systems held at Instituto de Matemática Pura e Aplicada - IMPA, Rio de Janeiro - RJ, from June 25 to 29, 2012 and presented the following work: “*On the metric properties of Feigenbaum Julia sets*”

Rio de Janeiro, June 29, 2012.

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We hereby certify that, *Carlos Gustavo Tamm de Araujo Moreira*, Instituto de Matematica Pura e Aplicada, participated in the First Balzan International Symposium on Dynamical Systems held at Instituto de Matemática Pura e Aplicada - IMPA, Rio de Janeiro - RJ, from June 25 to 29, 2012 and presented the following work: “*Fractal dimensions of horseshoes in dimension 3*”

Rio de Janeiro, June 29, 2012.

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We hereby certify that, *Carlos Matheus Silva Santos*, Collège de France, participated in the First Balzan International Symposium on Dynamical Systems held at Instituto de Matemática Pura e Aplicada - IMPA, Rio de Janeiro - RJ, from June 25 to 29, 2012 and presented the following work: “*Fractal geometry of non-uniformly hyperbolic horseshoes*”

Rio de Janeiro, June 29, 2012.

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We hereby certify that, *Christian Bonatti*, Institut de Mathematiques de Bourgogne - Dijon, participated in the First Balzan International Symposium on Dynamical Systems held at Instituto de Matemática Pura e Aplicada - IMPA, Rio de Janeiro - RJ, from June 25 to 29, 2012 and presented the following work: “*Foliated hyperbolicity*”

Rio de Janeiro, June 29, 2012.

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We hereby certify that, *David Zmiaikou*, Univ. Paris-Sud, participated in the First Balzan International Symposium on Dynamical Systems held at Instituto de Matemática Pura e Aplicada - IMPA, Rio de Janeiro - RJ, from June 25 to 29, 2012 and presented the following work: “*Square-tiled surfaces and generating the symmetric group*”

Rio de Janeiro, June 29, 2012.

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We hereby certify that, *Enrique Ramiro Pujals*, Instituto de Matematica Pura e Aplicada, participated in the First Balzan International Symposium on Dynamical Systems held at Instituto de Matemática Pura e Aplicada - IMPA, Rio de Janeiro - RJ, from June 25 to 29, 2012 and presented the following work: “*Critical points, for surfaces diffeomorphisms, abundance of periodic orbits and structural stability*”

Rio de Janeiro, June 29, 2012.

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We hereby certify that, *Jean-Christophe Yoccoz*, Collège de France, participated in the First Balzan International Symposium on Dynamical Systems held at Instituto de Matemática Pura e Aplicada - IMPA, Rio de Janeiro - RJ, from June 25 to 29, 2012 and presented the following work: “*Perturbations of Roth type interval exchange maps and translation Surfaces*”

Rio de Janeiro, June 29, 2012.

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We hereby certify that, *Jorge Erick López Velázquez*, IMPA - Pós-Doutorando, participated in the First Balzan International Symposium on Dynamical Systems held at Instituto de Matemática Pura e Aplicada - IMPA, Rio de Janeiro - RJ, from June 25 to 29, 2012 and presented the following work: “*Stable projections of cartesian products of regular Cantor sets*”

Rio de Janeiro, June 29, 2012.

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We hereby certify that, *José Régis Azevedo Varão Filho*, Inst. de Ciências Matemáticas e de Computação, participated in the First Balzan International Symposium on Dynamical Systems held at Instituto de Matemática Pura e Aplicada - IMPA, Rio de Janeiro - RJ, from June 25 to 29, 2012 and presented the following work: “*Center foliation: Absolute continuity, Disintegration and Rigidity.*”

Rio de Janeiro, June 29, 2012.

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We hereby certify that, *Lorenzo J. Diaz*, Pontifícia Universidade Católica do Rio de Janeiro, participated in the First Balzan International Symposium on Dynamical Systems held at Instituto de Matemática Pura e Aplicada - IMPA, Rio de Janeiro - RJ, from June 25 to 29, 2012 and presented the following work: “*Robust vanishing of all central Lyapunov exponents*”

Rio de Janeiro, June 29, 2012.

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We hereby certify that, *Luiz Henrique de Figueiredo*, Instituto de Matematica Pura e Aplicada, participated in the First Balzan International Symposium on Dynamical Systems held at Instituto de Matemática Pura e Aplicada - IMPA, Rio de Janeiro - RJ, from June 25 to 29, 2012 and presented the following work: “*Images of Julia sets that you can trust*”

Rio de Janeiro, June 29, 2012.

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We hereby certify that, *Marcelo M. Viana*, Instituto de Matematica Pura e Aplicada, participated in the First Balzan International Symposium on Dynamical Systems held at Instituto de Matemática Pura e Aplicada - IMPA, Rio de Janeiro - RJ, from June 25 to 29, 2012 and presented the following work: “*Time 1 maps of geodesic flows*”

Rio de Janeiro, June 29, 2012.

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We hereby certify that, *Marco Martens*, State University of New York at Stony Brook, participated in the First Balzan International Symposium on Dynamical Systems held at Instituto de Matemática Pura e Aplicada - IMPA, Rio de Janeiro - RJ, from June 25 to 29, 2012 and presented the following work: “*On the Hyperbolicity of Lorenz Renormalization*”

Rio de Janeiro, June 29, 2012.

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We hereby certify that, *Maria José Pacífico*, Universidade Federal do Rio de Janeiro, participated in the First Balzan International Symposium on Dynamical Systems held at Instituto de Matemática Pura e Aplicada - IMPA, Rio de Janeiro - RJ, from June 25 to 29, 2012 and presented the following work: “*A toy model for ows with equilibria attached to regular orbits*”

Rio de Janeiro, June 29, 2012.

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We hereby certify that, *Martín Sambarino*, Centro Matemática - Universidad de la Republica, participated in the First Balzan International Symposium on Dynamical Systems held at Instituto de Matemática Pura e Aplicada - IMPA, Rio de Janeiro - RJ, from June 25 to 29, 2012 and presented the following work: “*Some questions, problems and remarks regarding C^r dynamics*”

Rio de Janeiro, June 29, 2012.

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We hereby certify that, *Mikhail Lyubich*, State University of New York at Stony Brook, participated in the First Balzan International Symposium on Dynamical Systems held at Instituto de Matemática Pura e Aplicada - IMPA, Rio de Janeiro - RJ, from June 25 to 29, 2012 and presented the following work: “*On homoclinic tangencies in the complex Henon family*”

Rio de Janeiro, June 29, 2012.

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We hereby certify that, *Nicolas Gourmelon*, Université de Bordeaux, participated in the First Balzan International Symposium on Dynamical Systems held at Instituto de Matemática Pura e Aplicada - IMPA, Rio de Janeiro - RJ, from June 25 to 29, 2012 and presented the following work: “ *C^r dichotomies between Newhouse phenomena and dominated splittings, at homoclinic points*”

Rio de Janeiro, June 29, 2012.

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We hereby certify that, *Pablo Guarino*, Facultad de Ingenieria y Agrimensura, participated in the First Balzan International Symposium on Dynamical Systems held at Instituto de Matemática Pura e Aplicada - IMPA, Rio de Janeiro - RJ, from June 25 to 29, 2012 and presented the following work: “*Rigidity of Critical Circle Map*”

Rio de Janeiro, June 29, 2012.

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We hereby certify that, *Pierre Berger*, Université Paris XIII, participated in the First Balzan International Symposium on Dynamical Systems held at Instituto de Matemática Pura e Aplicada - IMPA, Rio de Janeiro - RJ, from June 25 to 29, 2012 and presented the following work: “*Zoology in the Hénon family from twin baby Hénon like attractors*”

Rio de Janeiro, June 29, 2012.

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We hereby certify that, *Rafael Potrie*, Centro Matemática - Universidad de la Republica, participated in the First Balzan International Symposium on Dynamical Systems held at Instituto de Matemática Pura e Aplicada - IMPA, Rio de Janeiro - RJ, from June 25 to 29, 2012 and presented the following work: “*Partial hyperbolicity and leaf conjugacy in nilmanifolds*”

Rio de Janeiro, June 29, 2012.

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We hereby certify that, *Sebastian Van Strien*, Imperial College London, participated in the First Balzan International Symposium on Dynamical Systems held at Instituto de Matemática Pura e Aplicada - IMPA, Rio de Janeiro - RJ, from June 25 to 29, 2012 and presented the following work: “*On stochastic stability of expanding circle maps with neutral fixed points*”

Rio de Janeiro, June 29, 2012.

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We hereby certify that, *Sheldon Newhouse*, Michigan State University, participated in the First Balzan International Symposium on Dynamical Systems held at Instituto de Matemática Pura e Aplicada - IMPA, Rio de Janeiro - RJ, from June 25 to 29, 2012 and presented the following work: “*The Lorenz Equations: A Survey of Rigorous Results*”

Rio de Janeiro, June 29, 2012.

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We hereby certify that, *Sylvain Crovisier*, Université Paris XIII, participated in the First Balzan International Symposium on Dynamical Systems held at Instituto de Matemática Pura e Aplicada - IMPA, Rio de Janeiro - RJ, from June 25 to 29, 2012 and presented the following work: “*Newhouse phenomenon and uniformity of extremal bundies*”

Rio de Janeiro, June 29, 2012.

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We hereby certify that, *Vilton Pinheiro*, Universidade Federal da Bahia, participated in the First Balzan International Symposium on Dynamical Systems held at Instituto de Matemática Pura e Aplicada - IMPA, Rio de Janeiro - RJ, from June 25 to 29, 2012 and presented the following work: “*Measures with historic behavior*”

Rio de Janeiro, June 29, 2012.

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We hereby certify that, *Waliston Luiz Lopes Rodrigues Silva*, Universidade Federal de Sao Joao del Rei, participated in the First Balzan International Symposium on Dynamical Systems held at Instituto de Matemática Pura e Aplicada - IMPA, Rio de Janeiro - RJ, from June 25 to 29, 2012 and presented the following work: “*On the geometry of horseshoes*”

Rio de Janeiro, June 29, 2012.

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We hereby certify that, *Yang Jiagang*, Universidade Federal Fluminense, participated in the First Balzan International Symposium on Dynamical Systems held at Instituto de Matemática Pura e Aplicada - IMPA, Rio de Janeiro - RJ, from June 25 to 29, 2012 and presented the following work: “*Diffeomorphisms with Contracting Center*”

Rio de Janeiro, June 29, 2012.

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We hereby certify that, *Yuri Gomes Lima*, Weizmann Institute of Science, participated in the First Balzan International Symposium on Dynamical Systems held at Instituto de Matemática Pura e Aplicada - IMPA, Rio de Janeiro - RJ, from June 25 to 29, 2012 and presented the following work: “*Stationary spaces of discrete groups: an Abramov formula*”

Rio de Janeiro, June 29, 2012.

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