



Salvador, Bahia, Brazil August 13-17, 2018

# DYNAMICAL SYSTEMS AND RELATED TOPICS

A Conference in Honor of Wellington de Melo

## CERTIFICATE

We hereby certify that, *Ali Tahzibi* - Instituto de Ciências Matemáticas e de Computação, participated in the Workshop Dynamical Systems and Related Topics, held at Universidade Federal da Bahia, Bahia, from August 13 – 17, 2018 and presented the following plenary talk: “**Atoms of Lebesgue along central foliation**”.

Rio de Janeiro, August 17<sup>th</sup>, 2018

Maria J. Pacifico  
Organizing Committee





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## CERTIFICATE

We hereby certify that, **Artur Avila - Univ. Pierre et Marie Curie**, participated in the Workshop Dynamical Systems and Related Topics, held at Universidade Federal da Bahia, Bahia, from August 13 – 17, 2018 and presented the following plenary talk: “**On Wellington de Melo’s work**”.

Rio de Janeiro, August 17<sup>th</sup>, 2018

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## CERTIFICATE

We hereby certify that, **Bassan Fayad** - Sorbonne Université, participated in the Workshop Dynamical Systems and Related Topics, held at Universidade Federal da Bahia, Bahia, from August 13 – 17, 2018 and presented the following plenary talk: “**Erratic behavior for 1-dimensional random walks in generic quasi-periodic environment**”.

Rio de Janeiro, August 17<sup>th</sup>, 2018

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## CERTIFICATE

We hereby certify that, **Daniel Smania Brandao** - Inst. Ciên. Matemática e Comp. de São Carlos, participated in the Workshop Dynamical Systems and Related Topics, held at Universidade Federal da Bahia, Bahia, from August 13 – 17, 2018 and presented the following plenary talk: “**Atomic decomposition and transfer operators**”.

Rio de Janeiro, August 17<sup>th</sup>, 2018

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## CERTIFICATE

We hereby certify that, **Dominik Kwietniak - Jagellonian University**, participated in the Workshop Dynamical Systems and Related Topics, held at Universidade Federal da Bahia, Bahia, from August 13 – 17, 2018 and presented the following plenary talk: **“On entropy of nonuniformly hyperbolic measures”**.

Rio de Janeiro, August 17<sup>th</sup>, 2018

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## CERTIFICATE

We hereby certify that, **Edson de Faria** - Instituto de Matemática e Estatística, participated in the Workshop Dynamical Systems and Related Topics, held at Universidade Federal da Bahia, Bahia, from August 13 – 17, 2018 and presented the following plenary talk: “**Dynamics of Asymptotically Holomorphic Polynomial-like Maps**”.

Rio de Janeiro, August 17<sup>th</sup>, 2018

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Salvador, Bahia, Brazil August 13-17, 2018

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## CERTIFICATE

We hereby certify that, **Etienne Ghys** - **École Normale Supérieure de Lyon**, participated in the Workshop Dynamical Systems and Related Topics, held at Universidade Federal da Bahia, Bahia, from August 13 – 17, 2018 and presented the following plenary talk: “**Linking in the 3-body problem**”.

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## CERTIFICATE

We hereby certify that, **Fabio Armando Tal** - Instituto de Matemática e Estatística, participated in the Workshop Dynamical Systems and Related Topics, held at Universidade Federal da Bahia, Bahia, from August 13 – 17, 2018 and presented the following plenary talk: “**Topological Horseshoes for surface homeomorphisms**”.

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## CERTIFICATE

We hereby certify that, **François Ledrappier - University Notre Dame**, participated in the Workshop Dynamical Systems and Related Topics, held at Universidade Federal da Bahia, Bahia, from August 13 – 17, 2018 and presented the following plenary talk: **“A family of stable diffusions”**.

Rio de Janeiro, August 17<sup>th</sup>, 2018

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Salvador, Bahia, Brazil August 13-17, 2018

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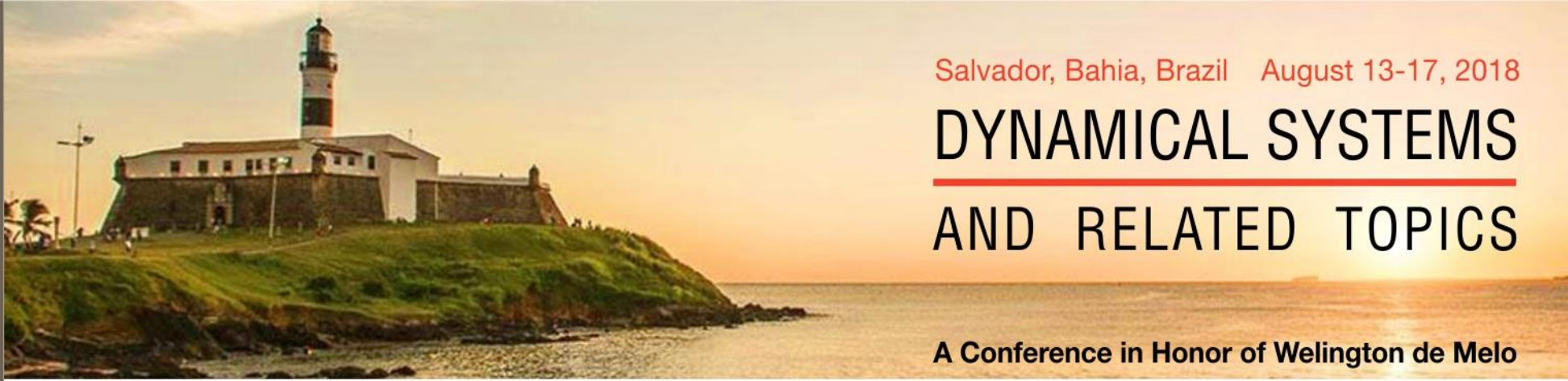
## CERTIFICATE

We hereby certify that, **Hiroki Takahasi** - **Keio University**, participated in the Workshop Dynamical Systems and Related Topics, held at Universidade Federal da Bahia, Bahia, from August 13 – 17, 2018 and presented the following plenary talk: “**Large Deviation Principle for arithmetic functions in continued fraction expansion**”.

Rio de Janeiro, August 17<sup>th</sup>, 2018

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## CERTIFICATE

We hereby certify that, *Ian Morris* - **University of Surrey**, participated in the Workshop Dynamical Systems and Related Topics, held at Universidade Federal da Bahia, Bahia, from August 13 – 17, 2018 and presented the following plenary talk: “**Matrix thermodynamic formalism**”.

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## CERTIFICATE

We hereby certify that, **Jacob Palis** - Instituto Nacional de Matemática Pura e Aplicada, participated in the Workshop Dynamical Systems and Related Topics, held at Universidade Federal da Bahia, Bahia, from August 13 – 17, 2018 and presented the following plenary talk: “**Wellington de Melo & his first meeting with Jacob Palis in 1970 at IMPA**”.

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## CERTIFICATE

We hereby certify that, **Karina Daniela Marin** - **Universidade Federal de Minas Gerais**, participated in the Workshop Dynamical Systems and Related Topics, held at Universidade Federal da Bahia, Bahia, from August 13 – 17, 2018 and presented the following plenary talk: “**Limit of u-states**”.

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## CERTIFICATE

We hereby certify that, **Katrin Gelfert** - **Universidade Federal do Rio de Janeiro**, participated in the Workshop Dynamical Systems and Related Topics, held at Universidade Federal da Bahia, Bahia, from August 13 – 17, 2018 and presented the following plenary talk: “**Exceptional sets for nonuniformly hyperbolic diffeomorphisms**”.

Rio de Janeiro, August 17<sup>th</sup>, 2018

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## CERTIFICATE

We hereby certify that, **Masato TSUJII - Kyushu University**, participated in the Workshop Dynamical Systems and Related Topics, held at Universidade Federal da Bahia, Bahia, from August 13 – 17, 2018 and presented the following plenary talk: “**On cohomological theory of dynamical zeta functions**”.

Rio de Janeiro, August 17<sup>th</sup>, 2018

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## CERTIFICATE

We hereby certify that, **Pablo Guarino** - **Universidade Federal Fluminense**, participated in the Workshop Dynamical Systems and Related Topics, held at Universidade Federal da Bahia, Bahia, from August 13 – 17, 2018 and presented the following plenary talk: “**Periodic orbits of circle renormalization**”.

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We hereby certify that, **Sebastian Van Strien** - Imperial College London, participated in the Workshop Dynamical Systems and Related Topics, held at Universidade Federal da Bahia, Bahia, from August 13 – 17, 2018 and presented the following plenary talk: **“Complex methods in real dynamics”**.

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## CERTIFICATE

We hereby certify that, **Sergei Yu. Pilyugin - Saint Petersburg State University**, participated in the Workshop Dynamical Systems and Related Topics, held at Universidade Federal da Bahia, Bahia, from August 13 – 17, 2018 and presented the following plenary talk: “**Shadowing properties of group actions**”.

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## CERTIFICATE

We hereby certify that, **Stefano Luzzatto - International Center for Theoretical and Physics**, participated in the Workshop Dynamical Systems and Related Topics, held at Universidade Federal da Bahia, Bahia, from August 13 – 17, 2018 and presented the following plenary talk: “**Geometric characterization of SRB measures for surface diffeomorphisms**”.

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## CERTIFICATE

We hereby certify that, **Vilton Pinheiro - Universidade Federal da Bahia**, participated in the Workshop Dynamical Systems and Related Topics, held at Universidade Federal da Bahia, Bahia, from August 13 – 17, 2018 and presented the following plenary talk: **“Synchronization of “Pliss times””**.

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## CERTIFICATE

We hereby certify that, **Viviane Baladi** - Sorbonne Université, participated in the Workshop Dynamical Systems and Related Topics, held at Universidade Federal da Bahia, Bahia, from August 13 – 17, 2018 and presented the following plenary talk: “**On the measure of maximal entropy of Sinai billiards**”.

Rio de Janeiro, August 17<sup>th</sup>, 2018

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