

# CERTIFICATE

We hereby certify that, *Ailin Ruiz de Zarate Fabregas*, Universidade Federal do Paraná, participated in the IMPA-Bath Workshop in Mathematics, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from January 23<sup>rd</sup> to 27<sup>th</sup>, 2017 and presented the following work: "A higher order Internal Wave Model".

Rio de Janeiro, January 30<sup>th</sup>, 2017.

André Nachbin Organizing Committee



# CERTIFICATE

We hereby certify that, *Alexandre Stauffer*, University of Bath, participated in the IMPA-Bath Workshop in Mathematics, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from January 23<sup>rd</sup> to 27<sup>th</sup>, 2017 and presented the following work: "Multi-particle diffusion limited aggregation".

Rio de Janeiro, January 30<sup>th</sup>, 2017.

André Nachbin Organizing Committee



### CERTIFICATE

We hereby certify that, *Alexei Mailybaev*, Instituto Nacional de Matemática Pura e Aplicada, participated in the IMPA-Bath Workshop in Mathematics, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from January 23<sup>rd</sup> to 27<sup>th</sup>, 2017 and presented the following work: **"Spontaneously stochastic solutions from singular initial data"**.

Rio de Janeiro, January 30<sup>th</sup>, 2017.

André Nachbin Organizing Committee



# CERTIFICATE

We hereby certify that, *Apala Majumdar*, University of Bath, participated in the IMPA-Bath Workshop in Mathematics, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from January 23<sup>rd</sup> to 27<sup>th</sup>, 2017 and presented the following work: **"The Mathematics of Liquid Crystals:** Merging Theory, Simulations and Experiments".

André Nachbin Organizing Committee





# CERTIFICATE

We hereby certify that, *Augusto Quadros Teixeira*, Instituto Nacional de Matemática Pura e Aplicada, participated in the IMPA-Bath Workshop in Mathematics, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from January 23<sup>rd</sup> to 27<sup>th</sup>, 2017 and presented the following work: **"Sharpness of the phase transition for continuum percolation in R<sup>2</sup>"**.

Rio de Janeiro, January 30<sup>th</sup>, 2017.

André Nachbin Organizing Committee



# CERTIFICATE

We hereby certify that, *Carlos Antonio Galeano Rios*, University of Bath, participated in the IMPA-Bath Workshop in Mathematics, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from January 23<sup>rd</sup> to 27<sup>th</sup>, 2017 and presented the following work: "A Model for the Impact of a Superhydrophobic Sphere onto a Bath and Application to Bouncing Droplets".

Rio de Janeiro, January 30<sup>th</sup>, 2017.

André Nachbin Organizing Committee



CERTIFICATE

We hereby certify that, *Cassio Machiaveli Oishi*, Universidade Estadual Paulista - Presidente Prudente, participated in the IMPA-Bath Workshop in Mathematics, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from January 23<sup>rd</sup> to 27<sup>th</sup>, 2017 and presented the following work: "A numerical study of the Oldroyd-B fluid in the natural stress formulation".

Rio de Janeiro, January 30<sup>th</sup>, 2017.

André Nachbin Organizing Committee



# CERTIFICATE

We hereby certify that, *Chris Guiver*, University of Bath, participated in the IMPA-Bath Workshop in Mathematics, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from January 23<sup>rd</sup> to 27<sup>th</sup>, 2017 and presented the following work: "Simple adaptive feedback control for positive state systems with potential applications to pest management".

Rio de Janeiro, January 30<sup>th</sup>, 2017.

André Nachbin Organizing Committee



### CERTIFICATE

We hereby certify that, *Claudio Landim*, Instituto Nacional de Matemática Pura e Aplicada, participated in the IMPA-Bath Workshop in Mathematics, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from January 23<sup>rd</sup> to 27<sup>th</sup>, 2017 and presented the following work: "A reaction-diffusion model".

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# CERTIFICATE

We hereby certify that, *Clodoaldo Grotta Ragazzo*, Instituto de Matemática e Estatística, participated in the IMPA-Bath Workshop in Mathematics, held at Instituto Nacional de Matemática Pura e Aplicada -IMPA - Rio de Janeiro, from January 23<sup>rd</sup> to 27<sup>th</sup>, 2017 and presented the following work: "Viscoelastic Tides: Models for Use in Celestial Mechanics".

André Nachbin Organizing Committee





## CERTIFICATE

We hereby certify that, *Daniel Ahlberg*, **IMPA - Pós-Doutorando**, participated in the IMPA-Bath Workshop in Mathematics, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from January 23<sup>rd</sup> to 27<sup>th</sup>, 2017 and presented the following work: **"Particle flows and geodesics in a random metric space"**.

Rio de Janeiro, January 30<sup>th</sup>, 2017.

André Nachbin Organizing Committee



### CERTIFICATE

We hereby certify that, *Daniel Gregorio Alfaro Vigo*, Universidade Federal do Rio de Janeiro, participated in the IMPA-Bath Workshop in Mathematics, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from January 23<sup>rd</sup> to 27<sup>th</sup>, 2017 and presented the following work: **"Time-reversal of waves in random media"**.

Rio de Janeiro, January 30<sup>th</sup>, 2017.

André Nachbin Organizing Committee



CERTIFICATE

We hereby certify that, *David Andrade*, Instituto Nacional de Matemática Pura e Aplicada, participated in the IMPA-Bath Workshop in Mathematics, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from January 23<sup>rd</sup> to 27<sup>th</sup>, 2017 and presented the following work: "Water waves over irregular bottoms".

Rio de Janeiro, January 30<sup>th</sup>, 2017.

André Nachbin Organizing Committee



# CERTIFICATE

We hereby certify that, *Francisco de Melo Viríssimo*, University of Bath, participated in the IMPA-Bath Workshop in Mathematics, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from January 23<sup>rd</sup> to 27<sup>th</sup>, 2017 and presented the following work: "Multilayered flows in the shallow-water limit: formulation and stability".

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We hereby certify that, Hubert Lacoin, Instituto Nacional de Matemática Pura e Aplicada, participated in the IMPA-Bath Workshop in Mathematics, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from January 23<sup>rd</sup> to 27<sup>th</sup>, 2017 and presented the following work: "Cutoff phenomenon for the asymmetric simple exclusion process and the biased card shuffling".

Rio de Janeiro, January 30<sup>th</sup>, 2017.

André Nachbin **Organizing Committee** 





# CERTIFICATE

We hereby certify that, *Jonathan Evans*, University of Bath, participated in the IMPA-Bath Workshop in Mathematics, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from January 23<sup>rd</sup> to 27<sup>th</sup>, 2017 and presented the following work: "Complex fluids with memory".

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## CERTIFICATE

We hereby certify that, *Jorge P. Zubelli*, Instituto Nacional de Matemática Pura e Aplicada, participated in the IMPA-Bath Workshop in Mathematics, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from January 23<sup>rd</sup> to 27<sup>th</sup>, 2017 and presented the following work: "A Non-intrusive Stratified Resampler for Regression Monte Carlo".

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# CERTIFICATE

We hereby certify that, *Jose Alberto Cuminato*, Inst. de Ciências Matemáticas e de Computação, participated in the IMPA-Bath Workshop in Mathematics, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from January 23<sup>rd</sup> to 27<sup>th</sup>, 2017 and presented the following work: "CeMEAI - Mathematical Sciences Applied to Industry".

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# CERTIFICATE

We hereby certify that, *Marcel Ortgiese*, University of Bath, participated in the IMPA-Bath Workshop in Mathematics, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from January 23<sup>rd</sup> to 27<sup>th</sup>, 2017 and presented the following work: "Branching random walks in random environment".

Rio de Janeiro, January 30<sup>th</sup>, 2017.

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### CERTIFICATE

We hereby certify that, *Milton David Jara Valenzuela*, Instituto Nacional de Matemática Pura e Aplicada, participated in the IMPA-Bath Workshop in Mathematics, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from January 23<sup>rd</sup> to 27<sup>th</sup>, 2017 and presented the following work: "Non-equilibrium fluctuations of interacting particle systems".

Rio de Janeiro, January 30<sup>th</sup>, 2017.

André Nachbin Organizing Committee



# CERTIFICATE

We hereby certify that, *Paul Milewski*, University of Bath, participated in the IMPA-Bath Workshop in Mathematics, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from January 23<sup>rd</sup> to 27<sup>th</sup>, 2017 and presented the following work: "Discussion".

Rio de Janeiro, January 30<sup>th</sup>, 2017.

André Nachbin Organizing Committee



### CERTIFICATE

We hereby certify that, *Robert Morris*, Instituto Nacional de Matemática Pura e Aplicada, participated in the IMPA-Bath Workshop in Mathematics, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from January 23<sup>rd</sup> to 27<sup>th</sup>, 2017 and presented the following work: **"Kinetically constrained spin models and bootstrap percolation"**.

Rio de Janeiro, January 30<sup>th</sup>, 2017.

André Nachbin Organizing Committee



### CERTIFICATE

We hereby certify that, *Roberto Imbuzeiro Moraes Felinto de Oliveira*, Instituto Nacional de Matemática Pura e Aplicada, participated in the IMPA-Bath Workshop in Mathematics, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from January 23<sup>rd</sup> to 27<sup>th</sup>, 2017 and presented the following work: "Variational inequalities and random data".

Rio de Janeiro, January 30<sup>th</sup>, 2017.

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# CERTIFICATE

We hereby certify that, *Roberto Ribeiro Santos Junior*, Universidade Federal do Paraná, participated in the IMPA-Bath Workshop in Mathematics, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from January 23<sup>rd</sup> to 27<sup>th</sup>, 2017 and presented the following work: "Flow structure beneath rotational water waves with stagnation points".

Rio de Janeiro, January 30<sup>th</sup>, 2017.

André Nachbin Organizing Committee



## CERTIFICATE

We hereby certify that, *Simon Richard Griffiths*, **Pontifícia Universidade Católica do Rio de Janeiro**, participated in the IMPA-Bath Workshop in Mathematics, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from January 23<sup>rd</sup> to 27<sup>th</sup>, 2017 and presented the following work: **"Moderate deviations in random graph subgraph counts"**.

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# CERTIFICATE

We hereby certify that, *Susie Douglas*, University of Bath, participated in the IMPA-Bath Workshop in Mathematics, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from January 23<sup>rd</sup> to 27<sup>th</sup>, 2017 and presented the following work: "Discussion".

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# CERTIFICATE

We hereby certify that, *Tim Rogers*, University of Bath, participated in the IMPA-Bath Workshop in Mathematics, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from January 23<sup>rd</sup> to 27<sup>th</sup>, 2017 and presented the following work: "Epidemics in networks: the risky and the at-risk".

Rio de Janeiro, January 30<sup>th</sup>, 2017.

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# CERTIFICATE

We hereby certify that, *Yuan Jin Yun*, Universidade Federal do Paraná, participated in the IMPA-Bath Workshop in Mathematics, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from January 23<sup>rd</sup> to 27<sup>th</sup>, 2017 and presented the following work: "Numerical methods for fractional convection-diffusion equations".

Rio de Janeiro, January 30<sup>th</sup>, 2017.

André Nachbin Organizing Committee