

Workshop on
Instantons and Extreme Events in
Turbulence and Dynamical Systems



IMPA, Rio de Janeiro, Brazil
December 7th to 10th, 2015

CERTIFICATE

We hereby certify that, **Alexei Mailybaev**, Instituto Nacional de Matemática Pura e Aplicada, participated in the Workshop on Instantons and Extreme Events in Turbulence and Dynamical Systems, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from December 7 to 10, 2015 and presented the following work: “**Dynamics after blowup: a universal route to stochasticity in turbulence models**”

Rio de Janeiro, December 10, 2015.

Alexei A. Mailybaev
Organizing Committee

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We hereby certify that, **David Mesterhazy, University of Bern**, participated in the Workshop on Instantons and Extreme Events in Turbulence and Dynamical Systems, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from December 7 to 10, 2015 and presented the following work:
“Instantons and Lattice Monte Carlo Methods in Turbulence”

Rio de Janeiro, December 10, 2015.

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We hereby certify that, ***Evgeny Kuznetsov***, **Lebedev Physical Institute of Russian Academy of Sciences**, participated in the Workshop on Instantons and Extreme Events in Turbulence and Dynamical Systems, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from December 7 to 10, 2015 and presented the following work: “**Breaking phenomena in incompressible fluids as a route to the Kolmogorov and Kraichnan spectra**”

Rio de Janeiro, December 10, 2015.

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We hereby certify that, **Francesco Ragone**, **École Normale Supérieure de Lyon**, participated in the Workshop on Instantons and Extreme Events in Turbulence and Dynamical Systems, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from December 7 to 10, 2015 and presented the following work: “**Large deviation theory and simulation of heat waves in climate models**”

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We hereby certify that, **Freddy Bouchet, CNRS**, participated in the Workshop on Instantons and Extreme Events in Turbulence and Dynamical Systems, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from December 7 to 10, 2015 and presented the following work: “**Introduction to large deviation theory in turbulence and other complex dynamical systems**”

Rio de Janeiro, December 10, 2015.

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We hereby certify that, **Gregory Falkovich, Weizmann Institute of Science**, participated in the Workshop on Instantons and Extreme Events in Turbulence and Dynamical Systems, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from December 7 to 10, 2015 and presented the following work: “**Fast and slow instantons**”

Rio de Janeiro, December 10, 2015.

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We hereby certify that, **Leonardo de Sousa Grigorio**, **Centro Federal de Educação Tecnológica Celso Suckow da Fonseca**, participated in the Workshop on Instantons and Extreme Events in Turbulence and Dynamical Systems, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from December 7 to 10, 2015 and presented the following work: “**Instantons in a Lagrangian model of turbulence**”

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We hereby certify that, **Luca biferale**, **Universita di Roma Tor Vergata**, participated in the Workshop on Instantons and Extreme Events in Turbulence and Dynamical Systems, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from December 7 to 10, 2015 and presented the following work: “**Extreme events in turbulence**”

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We hereby certify that, **Luca Moriconi**, **Universidade Federal do Rio de Janeiro**, participated in the Workshop on Instantons and Extreme Events in Turbulence and Dynamical Systems, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from December 7 to 10, 2015 and presented the following work: “**Velocity Gradient Fluctuations in a Lagrangian Model of Turbulence**”

Rio de Janeiro, December 10, 2015.

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We hereby certify that, **Thierry Dombre, Université de Grenoble**, participated in the Workshop on Instantons and Extreme Events in Turbulence and Dynamical Systems, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from December 7 to 10, 2015 and presented the following work: “**Instantons, zero modes and fluctuations in the Kraichnan model for turbulent advection**”

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We hereby certify that, **Victor S. L'vov, Weizmann Institute of Science**, participated in the Workshop on Instantons and Extreme Events in Turbulence and Dynamical Systems, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from December 7 to 10, 2015 and presented the following work: “**Statistics of superfluid turbulence**”

Rio de Janeiro, December 10, 2015.

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