

Workshop on  
Instantons and Extreme Events in  
Turbulence and Dynamical Systems



IMPA, Rio de Janeiro, Brazil  
December 7<sup>th</sup> to 10<sup>th</sup>, 2015

CERTIFICATE

We hereby certify that, **Alessandro Saboia Lima e Silva**, **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.

Rio de Janeiro, December 10, 2015.

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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.

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We hereby certify that, **Daniel Magalhaes Moura Neto**, 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.

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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.

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We hereby certify that, **Eduardo dos Santos Silva**, 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.

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We hereby certify that, **Elaine Ferreira Rocha**, **Universidade Federal da Bahia**, 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.

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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.

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We hereby certify that, **Fabíola Pedreira, Universidade Federal da Bahia**, 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.

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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.

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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.

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We hereby certify that, **Gabriel Brito Apolinário**, **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.

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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.

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We hereby certify that, **Guilherme Tegoni Goedert**, 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.

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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.

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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.

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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.

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We hereby certify that, **Margazoglou Georgios**, **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.

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We hereby certify that, **Marlon Michael López Flores**, **Universidade do Estado 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.

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We hereby certify that, **Max Akira Endo Kokubun**, **IMPA - Pós-Doutorando**, 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.

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We hereby certify that, **Moritz Reintjes**, **IMPA - Pós-Doutorando de Excelência**, 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.

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We hereby certify that, **Pedro Paulo Pinto Foster**, **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.

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We hereby certify that, **Roberto Sant'Anna Sacramento**, **Universidade Federal da Bahia**, 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.

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We hereby certify that, **Rodrigo Miranda Pereira**, **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.

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We hereby certify that, **Sara Ruth Pires Bispo**, **Universidade Federal da Bahia**, 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.

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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.

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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.

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