

International Conference on  
**Current Trends in Analysis & PDEs**


IMPA, Rio de Janeiro, Brazil  
August 17 - 21, 2015

Thematic Program  
Current Trends in Analysis and Partial Differential Equations

# CERTIFICATE

We hereby certify that, **Alexander Quaas Berger**, **Universidad Técnica Federico Santa Maria**, participated in the International Conference on Current Trends in Analysis and Partial Differential Equations – Thematic Program: Current Trends in Analysis and Partial Differential Equations, held at Instituto Nacional de Matemática Pura e Aplicada – IMPA, Rio de Janeiro, from August 17 to 21, 2015 and presented the following work: **“A Priori Bounds and Existence of Solutions for Some Nonlocal Elliptic Problems”**

Rio de Janeiro, August 21, 2015.



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We hereby certify that, **Benoit Perthame**, Univ. Pierre et Marie Curie, participated in the International Conference on Current Trends in Analysis and Partial Differential Equations – Thematic Program: Current Trends in Analysis and Partial Differential Equations, held at Instituto Nacional de Matemática Pura e Aplicada – IMPA, Rio de Janeiro, from August 17 to 21, 2015 and presented the following work: “**PDE models for neural networks; analysis and behaviour**”

Rio de Janeiro, August 21, 2015.



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We hereby certify that, **Bertrand Lods, Universita` di Torino**, participated in the International Conference on Current Trends in Analysis and Partial Differential Equations – Thematic Program: Current Trends in Analysis and Partial Differential Equations, held at Instituto Nacional de Matemática Pura e Aplicada – IMPA, Rio de Janeiro, from August 17 to 21, 2015 and presented the following work: **“Convergence to equilibrium for subcritical solutions of the Becker–Döring equations”**

Rio de Janeiro, August 21, 2015.



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We hereby certify that, **Christoph Thiele, Universität Bonn**, participated in the International Conference on Current Trends in Analysis and Partial Differential Equations – Thematic Program: Current Trends in Analysis and Partial Differential Equations, held at Instituto Nacional de Matemática Pura e Aplicada – IMPA, Rio de Janeiro, from August 17 to 21, 2015 and presented the following work: “**Certain estimates on Bessel integrals and their relevance for a Fourier restriction estimate**”

Rio de Janeiro, August 21, 2015.



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We hereby certify that, **Damiao Junio Araujo, University of Florida**, participated in the International Conference on Current Trends in Analysis and Partial Differential Equations – Thematic Program: Current Trends in Analysis and Partial Differential Equations, held at Instituto Nacional de Matemática Pura e Aplicada – IMPA, Rio de Janeiro, from August 17 to 21, 2015 and presented the following work: “**Geometric approach to nonvariational degenerate/singular elliptic equations**”

Rio de Janeiro, August 21, 2015.



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We hereby certify that, **David Jerison, Massachusetts Institute of Technology**, participated in the International Conference on Current Trends in Analysis and Partial Differential Equations – Thematic Program: Current Trends in Analysis and Partial Differential Equations, held at Instituto Nacional de Matemática Pura e Aplicada – IMPA, Rio de Janeiro, from August 17 to 21, 2015 and presented the following work: **“Compactness and singular limits of free boundary problems in the plane”**

Rio de Janeiro, August 21, 2015.



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We hereby certify that, **Dirk Hundertmark, Karlsruhe Institute of Technology**, participated in the International Conference on Current Trends in Analysis and Partial Differential Equations – Thematic Program: Current Trends in Analysis and Partial Differential Equations, held at Instituto Nacional de Matemática Pura e Aplicada – IMPA, Rio de Janeiro, from August 17 to 21, 2015 and presented the following work: “**Gevrey smoothing for weak solutions of the fully nonlinear homogeneous Boltzmann and Kac equations without cutoff for Maxwellian molecules**”

Rio de Janeiro, August 21, 2015.



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We hereby certify that, **Felipe Linares**, Instituto Nacional de Matemática Pura e Aplicada, participated in the International Conference on Current Trends in Analysis and Partial Differential Equations – Thematic Program: Current Trends in Analysis and Partial Differential Equations, held at Instituto Nacional de Matemática Pura e Aplicada – IMPA, Rio de Janeiro, from August 17 to 21, 2015 and presented the following work: **“Propagation of regularity of solutions to the k-generalized Korteweg-de Vries equation”**

Rio de Janeiro, August 21, 2015.



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We hereby certify that, **Hermano Frid, Instituto Nacional de Matemática Pura e Aplicada**, participated in the International Conference on Current Trends in Analysis and Partial Differential Equations – Thematic Program: Current Trends in Analysis and Partial Differential Equations, held at Instituto Nacional de Matemática Pura e Aplicada – IMPA, Rio de Janeiro, from August 17 to 21, 2015 and presented the following work: **“Global Smooth Solutions in  $R^3$  to Short Wave-Long Wave Interactions in Magnetohydrodynamics”**

Rio de Janeiro, August 21, 2015.



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We hereby certify that, **Ioannis Athanasopoulos**, **Universidade de Creta**, participated in the International Conference on Current Trends in Analysis and Partial Differential Equations – Thematic Program: Current Trends in Analysis and Partial Differential Equations, held at Instituto Nacional de Matemática Pura e Aplicada – IMPA, Rio de Janeiro, from August 17 to 21, 2015 and presented the following work: “**Parabolic Obstacle Problems**”

Rio de Janeiro, August 21, 2015.



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We hereby certify that, **Isabeau Birindelli, Universita` di Roma 1**, participated in the International Conference on Current Trends in Analysis and Partial Differential Equations – Thematic Program: Current Trends in Analysis and Partial Differential Equations, held at Instituto Nacional de Matemática Pura e Aplicada – IMPA, Rio de Janeiro, from August 17 to 21, 2015 and presented the following work: **“Symmetry and spectral properties for viscosity solutions of fully nonlinear equations”**

Rio de Janeiro, August 21, 2015.



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We hereby certify that, **José Miguel Urbano, Univ. de Coimbra**, participated in the International Conference on Current Trends in Analysis and Partial Differential Equations – Thematic Program: Current Trends in Analysis and Partial Differential Equations, held at Instituto Nacional de Matemática Pura e Aplicada – IMPA, Rio de Janeiro, from August 17 to 21, 2015 and presented the following work: “**Quantitative regularity results for singular and degenerate problems**”

Rio de Janeiro, August 21, 2015.



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We hereby certify that, **Juncheng Wei, Univ. of British Columbia**, participated in the International Conference on Current Trends in Analysis and Partial Differential Equations – Thematic Program: Current Trends in Analysis and Partial Differential Equations, held at Instituto Nacional de Matemática Pura e Aplicada – IMPA, Rio de Janeiro, from August 17 to 21, 2015 and presented the following work: **“On Serrin's overdetermined problem and a conjecture of Berestycki, Caffarelli and Nirenberg”**

Rio de Janeiro, August 21, 2015.



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We hereby certify that, **Laurent Desvillettes, École Normale Supérieure de Cachan**, participated in the International Conference on Current Trends in Analysis and Partial Differential Equations – Thematic Program: Current Trends in Analysis and Partial Differential Equations, held at Instituto Nacional de Matemática Pura e Aplicada – IMPA, Rio de Janeiro, from August 17 to 21, 2015 and presented the following work: “**New results on Landau's collision kernel for Coulomb interaction**”

Rio de Janeiro, August 21, 2015.



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We hereby certify that, **Lei Zhang, University of Florida**, participated in the International Conference on Current Trends in Analysis and Partial Differential Equations – Thematic Program: Current Trends in Analysis and Partial Differential Equations, held at Instituto Nacional de Matemática Pura e Aplicada – IMPA, Rio de Janeiro, from August 17 to 21, 2015 and presented the following work: “**Blowup up solutions of Toda systems**”

Rio de Janeiro, August 21, 2015.



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We hereby certify that, **Luis Angel Caffarelli**, **The University of Texas at Austin**, participated in the International Conference on Current Trends in Analysis and Partial Differential Equations – Thematic Program: Current Trends in Analysis and Partial Differential Equations, held at Instituto Nacional de Matemática Pura e Aplicada – IMPA, Rio de Janeiro, from August 17 to 21, 2015 and presented the following work: **“The Compressible Porous media Equation: Local and non local”**

Rio de Janeiro, August 21, 2015.



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We hereby certify that, **Manuel del pino**, **Centro de Modelamiento Matematico, Univ. de Chile**, participated in the International Conference on Current Trends in Analysis and Partial Differential Equations – Thematic Program: Current Trends in Analysis and Partial Differential Equations, held at Instituto Nacional de Matemática Pura e Aplicada – IMPA, Rio de Janeiro, from August 17 to 21, 2015 and presented the following work: “**Infinite time bubbling in critical Parabolic equations**”

Rio de Janeiro, August 21, 2015.



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We hereby certify that, **Noemi Wolanski**, **Universidad de Buenos Aires**, participated in the International Conference on Current Trends in Analysis and Partial Differential Equations – Thematic Program: Current Trends in Analysis and Partial Differential Equations, held at Instituto Nacional de Matemática Pura e Aplicada – IMPA, Rio de Janeiro, from August 17 to 21, 2015 and presented the following work: “**Large time behavior for a nonlocal diffusion equation in domains with holes**”

Rio de Janeiro, August 21, 2015.



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We hereby certify that, **Olivaine Santana de Queiroz, IMECC**, participated in the International Conference on Current Trends in Analysis and Partial Differential Equations – Thematic Program: Current Trends in Analysis and Partial Differential Equations, held at Instituto Nacional de Matemática Pura e Aplicada – IMPA, Rio de Janeiro, from August 17 to 21, 2015 and presented the following work: “**Harnack type inequality versus approximation procedure in the study of a class of free boundary problems**”

Rio de Janeiro, August 21, 2015.



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We hereby certify that, **Rafayel Teymurazyan, Univ. de Coimbra**, participated in the International Conference on Current Trends in Analysis and Partial Differential Equations – Thematic Program: Current Trends in Analysis and Partial Differential Equations, held at Instituto Nacional de Matemática Pura e Aplicada – IMPA, Rio de Janeiro, from August 17 to 21, 2015 and presented the following work: **“Optimization problems ruled by a-fractional diffusion operators with volume constrains”**

Rio de Janeiro, August 21, 2015.



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We hereby certify that, **Tatiana Toro, University of Washington**, participated in the International Conference on Current Trends in Analysis and Partial Differential Equations – Thematic Program: Current Trends in Analysis and Partial Differential Equations, held at Instituto Nacional de Matemática Pura e Aplicada – IMPA, Rio de Janeiro, from August 17 to 21, 2015 and presented the following work: “**Free boundary regularity for almost minimizers**”

Rio de Janeiro, August 21, 2015.



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We hereby certify that, **Tiago Henrique Picon, USP - Faculdade de Filosofia, Ciências e Letras de Ribeirão Preto**, participated in the International Conference on Current Trends in Analysis and Partial Differential Equations – Thematic Program: Current Trends in Analysis and Partial Differential Equations, held at Instituto Nacional de Matemática Pura e Aplicada – IMPA, Rio de Janeiro, from August 17 to 21, 2015 and presented the following work: “**L1 estimate for elliptic differential operators**”

Rio de Janeiro, August 21, 2015.



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We hereby certify that, **Wladimir Augusto das Neves, Universidade Federal do Rio de Janeiro**, participated in the International Conference on Current Trends in Analysis and Partial Differential Equations – Thematic Program: Current Trends in Analysis and Partial Differential Equations, held at Instituto Nacional de Matemática Pura e Aplicada – IMPA, Rio de Janeiro, from August 17 to 21, 2015 and presented the following work: **“Some results for nonlocal diffusion equations”**

Rio de Janeiro, August 21, 2015.



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