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# Nonlinear PDE's @ IMPA

IMPA, Rio de Janeiro, Brazil  
June 20 - 24, 2016

We hereby certify that, **Denis Serre, École Normale Supérieure de Lyon**, participated in the Nonlinear PDE's @ IMPA, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from June 20<sup>th</sup> to 24<sup>th</sup>, 2016 and presented a plenary talk: **"The singularity of a perfect gas at the vacuum boundary"**.

Rio de Janeiro, June 24<sup>th</sup>, 2016

Felipe Linares  
Organizing Committee

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IMPA, Rio de Janeiro, Brazil  
June 20 - 24, 2016

We hereby certify that, **Jean-Claude Saut, Université Paris - Sud**, participated in the Nonlinear PDE's @ IMPA, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from June 20<sup>th</sup> to 24<sup>th</sup>, 2016 and presented a plenary talk: "**Full dispersion water waves models**".

Rio de Janeiro, June 24<sup>th</sup>, 2016

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IMPA, Rio de Janeiro, Brazil  
June 20 - 24, 2016

We hereby certify that, **Kenneth H. Karlsen, Oslo University**, participated in the Nonlinear PDE's @ IMPA, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from June 20<sup>th</sup> to 24<sup>th</sup>, 2016 and presented a plenary talk: "**Stochastic Conservation Laws**".

Rio de Janeiro, June 24<sup>th</sup>, 2016

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IMPA, Rio de Janeiro, Brazil  
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We hereby certify that, **Luis Angel Caffarelli, The University of Texas at Austin**, participated in the Nonlinear PDE's @ IMPA, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from June 20<sup>th</sup> to 24<sup>th</sup>, 2016 and presented a plenary talk: "**Some non local versions of the Monge Ampere equation**".

Rio de Janeiro, June 24<sup>th</sup>, 2016

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IMPA, Rio de Janeiro, Brazil  
June 20 - 24, 2016

We hereby certify that, **Ronghua Pan, Georgia Institute of Technology**, participated in the Nonlinear PDE's @ IMPA, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from June 20<sup>th</sup> to 24<sup>th</sup>, 2016 and presented a plenary talk: "**Global regularity v.s. finite time blowup for compressible Euler equations**".

Rio de Janeiro, June 24<sup>th</sup>, 2016

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IMPA, Rio de Janeiro, Brazil  
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We hereby certify that, **Thierry Cazenave, Univ. Pierre et Marie Curie**, participated in the Nonlinear PDE's @ IMPA, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from June 20<sup>th</sup> to 24<sup>th</sup>, 2016 and presented a plenary talk: "**Regularity issues in semilinear Schrödinger and heat equations**".

Rio de Janeiro, June 24<sup>th</sup>, 2016

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IMPA, Rio de Janeiro, Brazil  
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We hereby certify that, **Vladimir Georgiev**, **Dipartimento di Matematica di Pisa**, participated in the Nonlinear PDE's @ IMPA, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from June 20<sup>th</sup> to 24<sup>th</sup>, 2016 and presented a plenary talk: “**Scattering of small solutions of the cubic NLS with short range potential**”.

Rio de Janeiro, June 24<sup>th</sup>, 2016

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IMPA, Rio de Janeiro, Brazil  
June 20 - 24, 2016

We hereby certify that, **YanYan Li, Rutgers University**, participated in the Nonlinear PDE's @ IMPA, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from June 20<sup>th</sup> to 24<sup>th</sup>, 2016 and presented a plenary talk: **"Symmetry, quantitative Liouville theorems and analysis of large solutions of conformally invariant fully nonlinear elliptic equations"**.

Rio de Janeiro, June 24<sup>th</sup>, 2016

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