



CERTIFICATE



Workshop on Fluids and PDE II
Instituto de Matemática – UFRJ
August 13–15, 2008

We certify that **Anne Bronzi (IMECC-Unicamp)** participated in the **Workshop on Fluids and PDE II**, held at the **Universidade Federal do Rio de Janeiro**, Brazil, from August 13 to 15, 2008, and presented a talk entitled **“Computational visualization of Shnirelman's compactly supported weak solution”**.

Rio de Janeiro, August 15, 2008

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August 13–15, 2008

We certify that **Atila Silva Freire (Coppe-UFRJ)** participated in the **Workshop on Fluids and PDE II**, held at the **Universidade Federal do Rio de Janeiro**, Brazil, from August 13 to 15, 2008, and presented a talk entitled **“The asymptotic structure of turbulent separating flows over smooth and rough wal”**.

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August 13–15, 2008

We certify that **Clodoaldo Ragazzo (IME-USP)** participated in the **Workshop on Fluids and PDE II**, held at the **Universidade Federal do Rio de Janeiro**, Brazil, from August 13 to 15, 2008, and presented a talk entitled **“Hydrodynamic interaction between rigid bodies”**.

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We certify that **Dragos Iftimie (Univ. Lyon 1)** participated in the **Workshop on Fluids and PDE II**, held at the **Universidade Federal do Rio de Janeiro**, Brazil, from August 13 to 15, 2008, and presented a talk entitled **“On vortex sheets on exterior domains and the Kelvin circulation theorem”**.

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We certify that **Flávio Dickstein (IM-UFRJ)** participated in the **Workshop on Fluids and PDE II**, held at the **Universidade Federal do Rio de Janeiro**, Brazil, from August 13 to 15, 2008, and presented a talk entitled **“Chaotic behavior of solutions of the Navier-Stokes system in \mathbb{R}^n ”**.

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We certify that **Gabriela Planas (IMECC-Unicamp)** participated in the **Workshop on Fluids and PDE II**, held at the **Universidade Federal do Rio de Janeiro**, Brazil, from August 13 to 15, 2008, and presented a talk entitled **“Asymptotic behaviour for the Navier-Stokes equations with delays terms”**.

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We certify that **Helena Nussenzveig Lopes (IMECC-Unicamp)** participated in the **Workshop on Fluids and PDE II**, held at the **Universidade Federal do Rio de Janeiro**, Brazil, from August 13 to 15, 2008, and presented a talk entitled “**Transport of interfaces with surface tension by 2D viscous flows**”.

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We certify that **Hermano Frid (IMPA)** participated in the **Workshop on Fluids and PDE II**, held at the **Universidade Federal do Rio de Janeiro**, Brazil, from August 13 to 15, 2008, and presented a talk entitled **“Vanishing viscosity with short wave long wave interactions for systems of conservation laws”**.

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We certify that **Jair Koiller (FGV-RJ)** participated in the **Workshop on Fluids and PDE II**, held at the **Universidade Federal do Rio de Janeiro**, Brazil, from August 13 to 15, 2008, and presented a talk entitled **“Vortices on surfaces”**.

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We certify that **Juan Bautista Villa Wanderley (Coppe-UFRJ)** participated in the **Workshop on Fluids and PDE II**, held at the **Universidade Federal do Rio de Janeiro**, Brazil, from August 13 to 15, 2008, and presented a talk entitled **“A numerical investigation of vortex induced vibration on an elastically mounted rigid cylinder”**.

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We certify that **Juliana Precioso (UNESP)** participated in the **Workshop on Fluids and PDE II**, held at the **Universidade Federal do Rio de Janeiro**, Brazil, from August 13 to 15, 2008, and presented a talk entitled **“Consistency of the relaxed solutions with the solutions of the Euler equations”**.

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We certify that **Luca Moriconi (IF-UFRJ)** participated in the **Workshop on Fluids and PDE II**, held at the **Universidade Federal do Rio de Janeiro**, Brazil, from August 13 to 15, 2008, and presented a talk entitled **“A Minimalist turbulent boundary layer model”**.

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We certify that **Marcello Faraco de Medeiros (USP-São Carlos)** participated in the **Workshop on Fluids and PDE II**, held at the **Universidade Federal do Rio de Janeiro**, Brazil, from August 13 to 15, 2008, and presented a talk entitled “**Interaction of instability waves and roughness to produce transition in boundary layers**”.

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We certify that **Marcelo Santos (IMECC-Unicamp)** participated in the **Workshop on Fluids and PDE II**, held at the **Universidade Federal do Rio de Janeiro**, Brazil, from August 13 to 15, 2008, and presented a talk entitled **“Application of the monotone iterative method for a combustion problem in a porous medium”**.

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We certify that **Max Souza (IM-UFF)** participated in the **Workshop on Fluids and PDE II**, held at the **Universidade Federal do Rio de Janeiro**, Brazil, from August 13 to 15, 2008, and presented a talk entitled **“Quasi-cylindrical flows and vortex breakdown”**.

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We certify that **Michael Jolly (Indiana University)** participated in the **Workshop on Fluids and PDE II**, held at the **Universidade Federal do Rio de Janeiro**, Brazil, from August 13 to 15, 2008, and presented a talk entitled **“Sharp estimates for turbulent flow”**.

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We certify that **Peter Constantin (U. Chicago)** participated in the **Workshop on Fluids and PDE II**, held at the **Universidade Federal do Rio de Janeiro**, Brazil, from August 13 to 15, 2008, and presented a talk entitled “**Corpora and Complex Fluids**”.

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We certify that **Milton Lopes (IMECC-Unicamp)** participated in the **Workshop on Fluids and PDE II**, held at the **Universidade Federal do Rio de Janeiro**, Brazil, from August 13 to 15, 2008, and presented a talk entitled **“Incompressible flows with small viscosity on large domains”**.

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We certify that **Valentina Busuioc (Univ. St. Etienne)** participated in the **Workshop on Fluids and PDE II**, held at the **Universidade Federal do Rio de Janeiro**, Brazil, from August 13 to 15, 2008, and presented a talk entitled **“On large time behavior for the alpha Navier-Stokes equations”**.

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We certify that **Zoran Grujic (U. Virginia)** participated in the **Workshop on Fluids and PDE II**, held at the **Universidade Federal do Rio de Janeiro**, Brazil, from August 13 to 15, 2008, and presented a talk entitled **“On localization and geometric depletion of vortex-stretching in the 3D NSE”**.

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We certify that **Patricia Hilario Tacuri (UFF)** participated in the **Workshop on Fluids and PDE II**, held at the **Universidade Federal do Rio de Janeiro**, Brazil, from August 13 to 15, 2008.

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We certify that **Christian Manuel Surco Chuño (UFF)** participated in the **Workshop on Fluids and PDE II**, held at the **Universidade Federal do Rio de Janeiro**, Brazil, from August 13 to 15, 2008.

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We certify that **Claudia Veronica Salas Magaño (UFF)** participated in the **Workshop on Fluids and PDE II**, held at the **Universidade Federal do Rio de Janeiro**, Brazil, from August 13 to 15, 2008.

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We certify that **Daniel Kiss (UFF)** participated in the **Workshop on Fluids and PDE II**, held at the **Universidade Federal do Rio de Janeiro**, Brazil, from August 13 to 15, 2008.

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We certify that **Cecília Mondaini (UFRJ)** participated in the **Workshop on Fluids and PDE II**, held at the **Universidade Federal do Rio de Janeiro**, Brazil, from August 13 to 15, 2008.

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We certify that **Maria Natividad Zegarra Garay (UFRJ)** participated in the **Workshop on Fluids and PDE II**, held at the **Universidade Federal do Rio de Janeiro**, Brazil, from August 13 to 15, 2008.

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