



Nonlinear PDEs in Continuum Mechanics International Workshop

CMAF/Universidade de Lisboa, 6-7 June, 2013

Thursday, 6 June 2013, III_Room B3-01

9:30-10:15 "*Singular solutions of the Navier-Stokes equations*", Vladislav Pukhnachev (Lavrentiev's Institute of Hydrodynamics, Novosibirsk, Russia).

10:15-11:00 "*Nonhomogeneous incompressible Bingham fluid: regularity of a weak solution*", Vladimir Shelukhin (Lavrentiev's Institute of Hydrodynamics, Novosibirsk, Russia).

11:15-12:00 "*Mathematical models of a wormhole formation*", Anvar Meirmanov (Kazakh-British Technical University, Almaty, Kazakhstan).

LUNCH

13:30-14:15 "*Optimal Regularity for the Obstacle Problem*", John Andersson (KTH, Stockholm, Sweden).

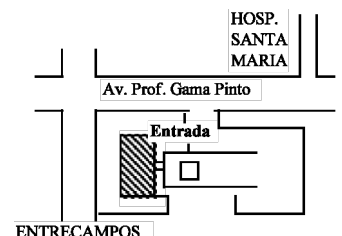
14:45-15:30 "*Models of viscous fluids with variable exponents: Results and Open Problems*" or "*Generalized Navier-Stokes equations with anisotropic dissipation*", Hermenegildo Oliveira (CMAF & University of Algarve).

15:30-16:15 "*Complex Ginzburg-Landau equation with absorption: existence and localization properties*", Stanislav Antontsev (CMAF, University of Lisbon).

Apoio: **FCT** Fundação para a Ciência e a Tecnologia MINISTÉRIO DA EDUCAÇÃO E CIÊNCIA Seminário financiado por Fundos Nacionais através da FCT – Fundação para a Ciência e a Tecnologia no âmbito do projeto **Pest-OE/MAT/UI0209/2013**



Local:
INSTITUTO PARA A INVESTIGAÇÃO INTERDISCIPLINAR
Av. Prof. Gama Pinto, 2
1649-003 Lisboa





Friday, 7 June 2013, III_Room B3-01

9:30-10:15. *"The motion of the rigid body in a viscous fluid with collision"*, Nikolai Chemetov (CMAF, University of Lisbon).

10:15-11:00 *"A class of electromagnetic $p(x,t)$ –curl system: Existence, Blow up and finite time extinction"*, Lisa Santos (CMAT, Universidade do Minho).

11:15-12:00 *"Biharmonic Equations with $p(x,t)$ Laplacian and Memory Term: Existence, Uniqueness and Blow up"*, Jorge Ferreira (Federal University Rural of Pernambuco–UFRPE-UAG/Brasil).

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13:30-14:15 *"Global L^2 —solvability of a problem on the motion of a drop in an incompressible fluid without surface tension"*, Irina Denisova (Institute for Mechanical Engineering Problems, Russian Academy of Sciences, S. Petersburg)

14:15-15:00 *"Parabolic equations with double variable nonlinearity"*, Sergey Shmarev (University of Oviedo, Spain).

15:30-16:15 *"Finite Element Method for Equations and Systems of reaction diffusion type"*, José Duque (University of Beira Interior).

16:15-17:00 *"A variational approach to steady glacier flows"*, Rafayel Teymurazyan (CMAF/Universidade de Lisboa).

Organizers: Stanislav Antontsev and José Francisco Rodrigues
(CMAF/Universidade de Lisboa)

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