Mathematical Modelling in Medicine

July 20th – August 28th 2009, Luminy, Marseille, France

Centre
Eté
Mathématique
Recherche
Avancée
Calcul
Scientifique
09

Student Seminar
14:00 - Auditorium

1ˢᵗ Week: 2-7 August

Monday August 2ⁿᵈ
Jean HOUOT

Institut Elie Cartan Nancy

Motion of rigid bodies in ideal fluid

Tuesday August 3ʳᵈ
Gabriela RUSNÁKOVÁ

Technische Universität Hamburg

Numerical Modelling of non-Newtonian blood flow

Wednesday August 4ᵗʰ
Amélie RAMBAUD

Institut Camille Jordan

Multilayers Shallow Water Model

Thursday August 5ᵗʰ
Nicolae CINDEA

Institut Elie Cartan Nancy

A problem of moments. Application to free-breathing cardiac MRI.

Friday August 6ᵗʰ
Cristina BARGO

University of Philippines / Université Piere et Marie Curie

Parareal Algorithm

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2nd Week: 10-14 August

9h00 - Monday August 10th
Cristina POCCI

Università La Sapienza

Perona-Malik type equations

9h30 - Monday August 10th
Alex LORZ

University of Cambridge

A Coupled Chemiotaxis Fluid Model

14h00 - Tuesday August 11th
Min TANG

Université Paul Sabatier

Asymptotic preserving method for isentropic Euler Equation

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14h30 - Tuesday August 11th
Thomas STIEHL

University of Heidelberg

Mathematical Models for Reconstitution after Bone Marrow Transplantation

14h00 - Wednesday August 12th
Dario GÖTZ

Technische Universität Berlin

Temporal semi-discretization of the equations

describing generalized Newtonian fluid flow

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2nd Week: 10-14 August

14h30 - Wednesday August 12th
Fredérique CHARLES

ENS-Cachan

Modélisation cinétique et simulation particulaire du transport

de poussières en cas d'accident de perte de vide dans ITER.

14h00 - Thursday August 13th
Alexandra LAUGEROTTE

Université Claude Bernard

β-adrenergic receptors (hormones, activation)

14h30 - Thursday August 13th
Ayman MOUSSA

CMLA

Spray in the upper ways of the human lungs

14h00 - Friday August 14th
Cristiana DI RUSSO

Università Roma Tre

Mathematical Modelling of Biofilms on the surface of monuments

14h30 - Friday August 14th
Cristóbal BERTOGLIO

INRIA-Rocquencourt

Filtering-based data assimilation in vascular fluid-structure interaction

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3rd Week: 17-21 August

9h00 - Monday August 17th
Alexis BLASSELLE

Université Pierre et Marie Curie

Modelling the skin

9h30 - Monday August 17th
Pierre GABRIEL

Laboratoire Jacques-Louis Lions

Asymptotic behavior for a fragmentation equation

14h00 - Tuesday August 17th

Augusto GEROLIN

Institut Fourier

Abel's Toboggan

14h30 - Tuesday August 17th

Jean-Baptiste LAGAERT

Université de Bordeaux 1 – INRIA

Glioblastoma Model (Brian Tumor)

14h00 - Wednesday August 19th
Jean-Joseph CRISTOPHE

Tohoku University / Université Paris VI

*Patient-specific morphological and blood flow numerical
analysis of the pulmonary arteries under pneumothorax*

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3rd Week: 17-21 August

14h30 - Wednesday August 19th
Julien OLIVIER

LAMA - Université de Savoie

On the modelization of complex fluids

14h00 - Thursday August 20th
Federico Verga

Université de Provence

A mathematical model for growing metastatic tumors

14h30 - Thursday August 20th
Sébastien BENZEKRY

Université de Provence

Asymptotic behavior of the renewal equation

14h00 - Friday August 21th
Christoph WINKLER

Universität Wien

Image Analysis of Actin Filament Meshworks