

# Journées Lions-Magenes

## Programme du mercredi 14 décembre 2011

Amphi 15 (niveau Jussieu, accès face à la tour 15), UPMC, 4 place Jussieu, Paris 5ème  
<http://www.ljll.math.upmc.fr/Journees-Lions-Magenes/>

- 08h30-09h00 Accueil
- 09h00-10h00 **Annalisa Buffa** (IMATI Enrico Magenes - CNR Pavia)  
On local refinement in isogeometric analysis
- 10h00-10h30 Pause café
- 10h30-11h00 **Elisabetta Chiodaroli** (Institut für Mathematik der Universität Zürich)  
A non-uniqueness result for entropy solutions  
to the compressible Euler system
- 11h00-11h30 **Nicolas Rougerie** (LPMMC - Université Joseph Fourier - Grenoble)  
On the third critical speed in Gross-Pitaevskii theory
- 11h30-12h00 Pause café
- 12h00-12h30 **Lorenzo Tamellini** (MOX - Dipartimento di Matematica -  
Politecnico di Milano)  
Polynomial approximation of elliptic PDEs with stochastic coefficients
- 12h30-13h00 **Thomas Lepoutre** (INRIA Rhône Alpes  
et Institut Camille Jordan - Université Lyon 1)  
Relaxed cross diffusion models: a general well-posedness result
- 13h00-14h30 Pause déjeuner
- 14h30-15h00 **Lucia Mirabella** (Cardiovascular Fluid Mechanics Laboratory -  
Georgia Institute of Technology - Atlanta)  
Surgical mathematics: from non-homogeneous boundary value problems  
to the operating room
- 15h00-15h30 **Anne-Claire Egloffé** (Inria Rocquencourt et LJLL -  
Université Pierre et Marie Curie - Paris 6)  
Study of inverse problems arising from a multiscale modeling of the lungs
- 15h30-16h00 Pause café
- 16h00-16h30 **Gianluigi Rozza** (Modelling and Scientific Computing -  
Ecole Polytechnique Fédérale de Lausanne)  
Reduced basis method for parametrized optimal control problems  
governed by PDEs
- 16h30-17h00 **Matthieu Léautaud** (Université Paris Sud - Orsay)  
Controllability of a diffusive interface problem

# Journées Lions-Magenes

## Programme du jeudi 15 décembre 2011

Amphi 15 (niveau Jussieu, accès face à la tour 15), UPMC, 4 place Jussieu, Paris 5ème  
<http://www.ljll.math.upmc.fr/Journees-Lions-Magenes/>

09h00-10h00 **Didier Smets** (LJLL - Université Pierre et Marie Curie - Paris 6)  
The flow of a curve by its binormal curvature

10h00-10h30 Pause café

10h30-11h00 **Lourenco Beirao Da Veiga** (Università di Milano)  
Mimetic discretizations of arbitrary local order and regularity

11h00-11h30 **Jean-Marie Mirebeau** (Ceremade - Université Paris Dauphine)  
Mesh adaptation for approximation by finite elements of arbitrary degree

11h30-12h00 Pause café

12h00-12h30 **Paola Antonietti** (MOX - Dipartimento di Matematica -  
Politecnico di Milano)  
Non-conforming high order approximations of the elastodynamic equation

12h30-13h00 **Marie Kray** (LJLL - Université Pierre et Marie Curie - Paris 6)  
Time reversed absorbing condition: recreate the past  
and application to inverse problems

13h00-14h30 Pause déjeuner

14h30-15h00 **Andrea Manzoni** (Modelling and Scientific Computing -  
Ecole Polytechnique Fédérale de Lausanne)  
A reduced computational and geometrical framework  
for inverse problems in haemodynamics

15h00-15h30 **Jérémi Dardé** (Inverse problems group - Department of Mathematics  
and Systems Analysis - Aalto University - Helsinki)  
A mixed formulation of the quasi-reversibility method  
to solve elliptic Cauchy problems in 2d and 3d

15h30-16h00 Pause café

16h00-16h30 **Antonio Segatti** (Dipartimento di Matematica F. Casorati -  
Università di Pavia)  
On a variational principle for gradient flows in metric spaces

16h30-17h00 **Evelyne Miot** (Université Paris Sud - Orsay)  
On the Vlasov-Poisson system with point charges in 2 and 3 dimensions