

## Program

### Tuesday, November 30th, 2010, afternoon



13.30 – 14.45 **Welcome lunch**



14.45 – 15.30

speaker Nicholas ALIKAKOS (University of Athens, Greece)

**Heteroclinic traveling waves of gradient diffusion systems.**



15.30 – 16.15

speaker Johannes ZIMMER (University of Bath, United Kingdom)

**Ill-posed problem in nonlinear elasticity: Macro and micro.**



16.15 – 16.45 **Coffee break**



16.45 – 17.30

speaker Giovanni BELLETTINI ("Tor Vergata" Università di Roma, Italy)

**Remarks on a Perona-Malik type equation:**

**Convergence of discrete approximations for large times.**

### Wednesday, December 1st, 2010, morning



10.00 – 10.45

speaker Amy NOVICK-COHEN (Technion - Israel Institute of Technology, Israel)

**The thin film equation with lower order destabilizing forcing.**



10.45 – 11.30

speaker Andrea TERRACINA ("Sapienza" Università di Roma, Italy)

**Two phase entropy solutions for forward-backward parabolic problems.**



11.30 – 12.00 **Coffee break**



12.00 – 12.45

speaker Juan José Lopez VELÁZQUEZ (Universidad Complutense de Madrid, Spain)

**Qualitative properties of solutions of coagulation equations.**

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## Wednesday, December 1st, 2010, afternoon



12.45 – 14.30 **Lunch**



14.30 – 15.15

speaker Alain MIRANVILLE (Université de Poitiers, France)

**The Cahn-Hilliard equation with dynamic boundary conditions.**



15.15 – 16.00

speaker Maurizio GRASSELLI (Politecnico di Milano, Italy)

**Singularly perturbed Cahn-Hilliard equations.**

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## Thursday, December 2nd, 2010, morning



10.00 – 10.45

speaker Mark A. PELETIER (Technische Universiteit Eindhoven, The Netherlands)

**Passing to the limit in the Wasserstein gradient-flow formulation.**



10.45 – 11.30

speaker Paolo BUTTÀ ("Sapienza" Università di Roma, Italy)

**Navier-Stokes equations on the flat cylinder  
with vorticity production on the boundary.**



11.30 – 12.00 **Coffee break**



12.00 – 12.45

speaker Ulisse STEFANELLI (IMATI - CNR, Italy)

**A new variational view at Lagrangian mechanics.**

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## Thursday, December 2nd, 2010, afternoon



12.45 – 14.30 **Lunch**



14.30 – 15.15

speaker Philippe LeFLOCH (Université de Paris VI and CNRS, France)

**Self-similar vanishing viscosity-capillarity limits.**



15.15 – 16.00

speaker Rinaldo M. COLOMBO (Università di Brescia, Italy)

**Phase transitions in hyperbolic models.**

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## Friday, December 3rd, 2010, morning



10.00 – 10.45

speaker Lorenzo BERTINI (“Sapienza” Università di Roma, Italy)  
**Boundary effects in the gradient theory of phase transitions.**



10.45 – 11.30

speaker Giorgio FUSCO (Università dell'Aquila, Italy)  
**Remarks on the dynamics of some forward-backward parabolic equations.**



11.30 – 12.00 **Coffee break**



12.00 – 12.45

speaker Felix OTTO (Universität Bonn, Germany)  
**Pattern formation and Partial Differential Equations.**

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## End of the Workshop