

ERC conference on Optimal Transportation and Applications
Centro De Giorgi, Scuola Normale Superiore
Pisa, October 27-31, 2014

Schedule

Monday 27

8.30-8.55. Registration.

8.55-9.00. Welcome address.

9.00-9.50. **Mark Peletier (Eindhoven University)**. *Stochastic origins of gradient flows: a general connection.*

10.00-10.50. **Shin-ichi Ohta (Kyoto University)**. *Gradient flows of semi-convex functions on CAT(1)-spaces.*

10.50-11.30. Coffee break.

11.30-12.20. **Yann Brenier (École Polytechnique)**. *Optimal transport and combinatorial optimization: old and new.*

Lunch.

14.30-15.20. **Kazumasa Kuwada (Ochanomizu University)**. *On the speed in transportation costs of heat distributions.*

15.30-16.20. **Pierre Cardaliaguet (Université Paris Dauphine)**. *Optimal transport and first order mean field games.*

16.20-16.50. Coffee break.

16.50-17.40. **Jan Maas (Bonn University)**. *A gradient flow approach to chemical master equations.*

Tuesday 28

9.00-9.50. **Takashi Shioya (Tohoku University)** *Metric measure limits of spheres and complex projective spaces.*

9.55-10.45. **Nathael Gozlan (Université Paris Est Marne la Vallée)**. *Transport proof of weighted Poincaré inequalities for log-concave probability measures..*

10.45-10.15. Coffee break.

10.15-12.05. **Bertrand Maury (Université Paris Sud)**. *Crowd motion and pressureless Euler equation: an OT standpoint.*

12.10-13.00. **Facundo Mémoli (Ohio State University)**. *The shape space defined by the Gromov-Wasserstein distance.*

Lunch.

14.30-15.20. **Eugene Stepanov (St. Petersburg University)**. *Flows of measures induced by measurable vector fields.*

15.25-15.55. **Dario Trevisan (Scuola Normale Superiore)**. *DiPerna-Lions flows in $RCD(K, \infty)$ metric measure spaces.*

16.00-16.30. **Matthias Liero (WIAS, Berlin)**. *Reaction-diffusion via optimal transport on the cone space.*

16.30-16.50. Coffee break.

16.50-17.20. **Alpar Meszaros (Université Paris-Sud)**. *A diffusive crowd motion model with density constraints.*

17.25-17.55. **Andrea Pinamonti (Scuola Normale Superiore)**. *Tensorization of Cheeger energies and applications to the area formula for graphs in metric measure spaces.*

Wednesday 29

9.00-9.50. **Robert Mc Cann (Toronto University)**. *The spectrum of a family of fourth-order nonlinear diffusions near the global attractor.*

9.55-10.45. **Wilfrid Gangbo (Georgia Institute of Technology)**. *Metric Viscosity Solutions of Hamilton-Jacobi Equations Depending on Local Slopes.*

10.45-11.15. Coffee break.

11.15-12.05. **Christian Leonard (Université Paris Ouest Nanterre)**. *An entropic interpolation problem for incompressible viscid fluids.*

12.10-13.00. **Nicola Gigli (UPMC, Jussieu)**. *Nonsmooth differential geometry.*

Lunch.

Free afternoon

Thursday 30

9.00-9.50. **Alexander Mielke (WIAS Berlin)**. *A reaction-diffusion equation as a Hellinger-Kantorovich gradient flow.*

9.55-10.45. **Matthias Erbar (Bonn University)**. *Curvature-dimension bounds for continuous and discrete spaces.*

10.45-11.15. Coffee break.

11.15-12.05. **José Antonio Carrillo (Imperial College)**. *Minimizers of Interaction Energies.*

12.10-13.00. **Tapio Rajala (Jyväskylä University)** *Examples of branching metric spaces with Ricci curvature lower bounds.*

Lunch.

14.30-15.20. **Filippo Santambrogio (Université Paris-Sud)**. *On the solutions of the variational problem $\min_{\rho} W_2^2(\rho, \nu) + F(\rho)$: new estimates and applications.*

15.30-16.20. **Ivan Gentil (Université Claude Bernard Lyon)**. *Contraction in Wasserstein distance for Markov diffusion semigroups.*

16.20-16.50. Coffee break.

16.50-17.40. **Christian Ketterer (Bonn University)**. *Obata's theorem for metric measure spaces.*

Friday 31

9.00-9.50. **Martin Huesmann (Bonn University)**. *Optimal transport and Skorokhod embedding.*

10.00-10.50. **Andrea Mondino (ETH, Zurich)**. *On the local structure of $RCD^*(K, N)$ -spaces.*

10.50-11.30. Coffee break.

11.30-12.20. **Karl-Theodor Sturm (Bonn University)**. *Recent results in analysis on metric measure spaces.*