

ERC conference on Optimal Transportation and Applications
Centro De Giorgi, Scuola Normale Superiore
Pisa, November 7-11, 2016

Schedule

Monday 7

8.30-8.55. Registration.

8.55-9.00. Welcome address.

9.00-9.50. **Nicola Gigli (SISSA)**. *Schroedinger problem and Wasserstein geodesics.*

10.00-10.50. **Allen Tannenbaum (Stony Brook University, New York)**. *Optimal Mass Transport and the Robustness of Complex Networks.*

10.50-11.30. Coffee break.

11.30-12.20. **Shin-ichi Ohta (Kyoto University)**. *Some functional inequalities on non-reversible Finsler manifolds.*

Lunch.

14.30-15.20. **Yann Brenier (École Polytechnique)**. *Hidden convexity for some gradient flows in spaces of differential forms.*

15.30-16.20. **Max Fathi (UC Berkeley)**. *Deficit estimates for the Entropy Power inequality.*

16.20-16.50. Coffee break.

16.50-17.40. **Simone Di Marino (Paris-Sud University)**. *DFT, multimarginal optimal transport and Lieb-Oxford inequalities.*

Tuesday 8

9.00-9.50. **Fabrice Baudoin (University of Connecticut)**. *Differential forms on Dirichlet spaces and Bakry-Emery estimates on metric graphs.*

9.55-10.45. **Mark Peletier (Eindhoven University of Technology)**. *Convergence of many-dislocation evolutions with multiple signs.*

10.45-11.15. Coffee break.

11.15-12.05. **Sergio Caracciolo (Milan University)**. *Random and Euclidean Bipartite Matching Problem.*

12.10-13.00. **Wilfrid Gangbo (Georgia Institute of Technology)**. *Paths of minimal length in the class of exact k -differential forms.*

Lunch.

14.30-15.20. **Pierre Cardaliaguet (Paris Dauphine University)**. *The master equation in mean field games.*

15.25-16.15. **Luigi De Pascale (Florence University)**. *On multimarginal Optimal Transportation with Coulomb cost.*

16.20-16.50. Coffee break.

16.50-17.40. **Matthias Erbar (Bonn University)**. *A gradient flow approach to the Boltzmann equation.*

17.45-18.35. **Massimo Fornasier (Technical University of Munich)**. *Learning and Sparse Control of Multiagent Systems.*

Wednesday 9

9.00-9.50. **Filippo Santambrogio (Université Paris-Sud)**. *Flow interchange techniques and the time-discretization of variational Mean Field Games.*

9.55-10.45. **Martin Huesmann (Bonn University)**. *The geometry of multi-marginal Skorokhod embedding.*

10.45-11.15. Coffee break.

11.15-12.05. **Maria Colombo (ETH/University of Zurich)**. *Lipschitz Changes of Variables between Perturbations of Log-Concave Measures.*

12.10-13.00. **Jan Maas (IST, Wien)**. *Gradient flow structures for quantum evolution equations with detailed balance.*

Lunch.

Free afternoon

Thursday 10

9.00-9.50. **Andrea Mondino (Zurich University)**. *Sectional (and intermediate Ricci) curvature lower bounds via Optimal Transport.*

9.55-10.45. **Gabriel Peyre (Paris Dauphine University)**. *From Monge-Kantorovich to Gromov-Wasserstein: Numerical Optimal Transport Between Several Metric Spaces.*

10.45-11.15. Coffee break.

11.15-12.05. **Kazumasa Kuwada (Tokyo Institute of Technology)**. *Monotonicity and Rigidity of the \mathcal{W} -entropy on $\text{RCD}(0, N)$ spaces.*

12.10-13.00. **Jean-David Benamou (INRIA)**. *Monge-Ampère Based Optimal Transportation Solvers.*

Lunch.

14.30-15.20. **Shouhei Honda (Tohoku University)**. *Ricci curvature and orientability.*

15.25-16.15. **Daniel Matthes (Technical University of Munich)**. *A gradient flow approach to multi-component Cahn-Hilliard systems.*

16.20-16.50. Coffee break.

16.50-17.40. **Matthias Liero (WIAS, Berlin)**. *On geodesic curves and convexity of functionals with respect to the Hellinger-Kantorovich distance.*

17.45-18.35. **Leonard Monsaingeon (Istituto Superior Técnico, Lisboa)**. *Incompressible immiscible multiphase flows in porous media: a variational approach.*

Friday 11

9.00-9.50. **Karl-Theodor Sturm (Bonn University)**. *Heat flow on time-dependent metric measure spaces and super Ricci flows.*

10.00-10.50. **Guillaume Carlier (Paris Dauphine University)**. *Numerical methods for Wasserstein gradient flows.*

10.50-11.30. Coffee break.

11.30-12.20. **Nassif Ghoussoub (University of British Columbia)**. *Optimal Mass Transport for Ballistic Costs: Factorizations, Existence and Mean Field Games.*