SUMMER SCHOOL IN MATHEMATICS

OPTIMAL TRANSPORTATION THEORY AND APPLICATIONS

Institut Fourier – Grenoble (France)
June 15th - July 3th, 2009

The aim is to present recent developments in optimal transportation and also its applications in biology, mathematical physics, information theory,...

First week: Basic courses

General theory of optimal transport	
Models and applications of optimal transport in economics, traffic and urban planning	F. Santambrogio
Lagrangian systems and their associated costs	A. Fathi
Logarithmic Sobolev inequality for diffusions and curvature- dimension condition	I. Gentil
Discrete Markov chains, functional inequalities and optimal transport	Y. Ollivier

Second week: Advanced courses

Variational methods for incompressible Euler equations	A. Figalli
Ricci flow	P. Topping
Gradient flows and optimal transport	G. Savare
Ricci curvature, entropy and optimal transport	S. I. Ohta

Third week: Workshop

F. Bolley, Y. Brenier, V. Calvez, J. Delon, B. De Meyer, I. Ekeland, U. Frisch, N. Gozlan, R.Gray, A. Guillin, D. Jacobs, C. Jimenez, A. Joulin, R. Mc Cann, F. Maggi, B. Maury, Q. Mérigot, B. W. Schachermayer, E. Stepanov, K.T. Sturm, L.Wu.

For further information and registration:
Web site: http://www-fourier.ujf-grenoble.fr/-2009-.html
Organizers: Y. Ollivier, H. Pajot, C.Villani
Secretary: Geraldine.Rahal@ujf-grenoble.fr

This school is supported by:
MENRT, CNRS, Université Joseph Fourier (Ecole doctorale MSTII, Collège des Ecoles Doctorales), Ville de Grenoble, Région Rhône-Alpes, GDR 2753, ANR FOG, ANR CANNON, ANR KAMFAIBLE, ANR EVOL

Institut Fourier - 100 rue des Maths - BP 74 - 38402 Saint Martin d'Hères Cedex (FRANCE)
Téléphone (33) 04.76.51.46.56. - Télécopie (33) 04.76.51.44.78.