

Curso de Doctorado “Introduction to optimal transport theory”

Thierry Champion, Université de Toulon, Francia

In this series of lectures we shall introduce the basic concepts and results of the optimal transport theory, and present some applications and active research topics. We shall mainly focus on the following:

- Monge and Kantorovich transport problems as well as duality in the general setting, cyclic-monotonicity.
- The one dimensional case and monotone transport maps.
- Existence results: Brenier Theorem, the strictly convex case, the norm case and Beckman problem.
- Wasserstein spaces: topology, curves and geodesics. Displacement (or geodesic) convexity and a short introduction to associated gradient flows.

Fechas: 2, 3, 4, 5 y 6 de Febrero de 2015

Hora: 12:00 - 13:30 h.

Lugar: Aula 222



Departamento de
Análisis Matemático

