

Programme on  
“Optimal Transport”

April 15 – June 14, 2019

organized by

**Mathias Beiglböck (U Vienna), Alessio Figalli (ETH Zürich), Jan Maas (IST Austria), Robert McCann (U Toronto), Justin Solomon (MIT, Cambridge)**

- **Thursday, April 25, 2019**

15:45 – 16:45 **Mathieu Lewin (CNRS & U Paris-Dauphine)**

*Optimal Transport and Density Functional Theory*

Abstract: In this talk I will explain the role of Optimal Transport in Density Functional Theory, the main method used by quantum chemists and physicists to compute the state of quantum electrons at the microscopic scale. I will review some recent mathematical advances in this theme and mention some open problems.

**All talks take place at ESI, Boltzmann Lecture Hall!**