



SCUOLA  
NORMALE  
SUPERIORE

## SEMINARIO DI MATEMATICA

Martedì 18 dicembre 2018  
ore 14:00

Scuola Normale Superiore  
Pisa  
Aula Bianchi Scienze

**Thierry Paul**  
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terrà un seminario dal titolo:

### **“Quantum Wasserstein "distances" and optimal transport?”**

**Abstract:**

I will define a quantum analogue to the Wasserstein distance of order two between density operators, namely positive trace one operators on Hilbert spaces. I will give first properties, in particular the link with usual Wasserstein distance between positive symbols of the quantum densities and show how they define a topology more adapted to the classical limit than the one defined by Schatten classes. Finally I will present recent results obtained with E. Caglioti and F. Golse concerning a quantum version of the Brenier optimal transport Theorem.

Tutti gli interessati sono invitati a partecipare.

Classe di Scienze