

# SEMPARIS – Séminaires en région parisienne

<http://string.lpthe.jussieu.fr/semparis/>

## FocusDays@LPENS

**Mardi 23 Avril 2024, 14 :30**

LPENS, Salle Langevin 29 RUE D'ULM( (2nd of 3 talks in the Focus Day  
on Optimal Transport) )

Domaines : cond-mat.stat-mech—math-ph—math.MP—physics.comp-ph

Titre : *Statistical Physics of Optimal Transport*

Orateur : **Henri Orland ( IPhT-Saclay )**

Résumé : *We will show how the Optimal Transport problem can be recast in the framework of statistical physics and studied at finite temperature. This allows for the implementation of very fast and efficient algorithms and the generalization of the Wasserstein distance to finite temperature. The statistical physics method can be extended to several forms of unbalanced Optimal Transport problems, and to the Gromov-Wasserstein metric. Finally, we show some implications in non-equilibrium statistical physics.*

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