

# SEMPARIS – Séminaires en région parisienne

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## Séminaire de physique mathématique

**Lundi 20 Novembre 2017, 11 :00**

IPHT, Salle Claude Itzykson, Bât. 774

Domaines : math-ph

Titre : *Generalized Gibbs Ensembles and Generalized Hydrodynamics in quantum integrable systems*

Orateur : **Jacopo De Nardis ( ENS )**

Résumé : *I'll give a short review of the the recent theoretical progresses to explicitly construct non-thermal steady states in quantum systems as interacting bosons and spin chains. I'll show how the presence of multiple effective temperatures can be experimentally observed by means of a generalized fluctuation-dissipation theorem. Moreover I'll present the recently introduced hydrodynamic description of such non-thermal steady states that allows to construct non-equilibrium steady states with persistent energy or spin currents and to study transport properties of the XXZ chain and the fermionic Hubbard model.*

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