

Postdoctoral Position in Statistical Physics at LPTMS (University Paris-Sud-Orsay) and at LPT-ENS (Ecole Normale Supérieure, Paris).

Applications are invited for a postdoctoral fellowship in statistical physics, disordered systems, random matrices, non-equilibrium quantum or classical physics.

This fellowship is for two years. The starting date would be in principle October 2024, with some flexibility. The selected candidate is expected to spend one year at the Laboratoire de Physique Théorique et Modèles Statistiques (LPTMS-Orsay), and one year at the Laboratoire de Physique de l'Ecole Normale Supérieure (LPENS).

This fellowship is funded by the Agence Nationale de la Recherche and is associated to a project entitled "Extreme dynamics and interacting particle systems", a collaboration involving S. N. Majumdar (LPTMS-Orsay), G. Schehr (LPTHE-Sorbonne Université), D. S. Dean (LOMA-Bordeaux) and P. Le Doussal (LPENS), in which the selected candidate will participate.

The main subject of interest is the study of the non-equilibrium dynamics of particle systems with a focus on dynamics of extremes, large deviations and counting statistics. The aim of this project is to develop new theoretical tools and explore connections to other problems such as random matrix theory, classical and quantum growth processes, integrable and disordered systems. Applications of this project include active matter systems, Coulomb systems, diffusion in random media, classical and quantum resetting and entanglement dynamics. Emphasis is given in comparison between analytical methods, numerical methods, and experiments and the candidate will have the opportunity to develop each of these facets.

The candidate will benefit from the very stimulating research environment of the Physics Department at ENS, and of the LPTMS-Orsay.

Applications including a CV, a list of publications, a description of past research, a statement on future research interests, should be sent to Grégoire Schehr by email at the address schehr@lpthe.jussieu.fr. Applicants should also arrange for three letters of recommendation to be sent to the same address. The deadline for the applications is soft and around December 20, 2023.

For more information contact either
Grégoire Schehr (schehr@lpthe.jussieu.fr),
Satya N. Majumdar (satya.majumdar@u-psud.fr),
David S. Dean (dean@u-bordeaux.fr),
Pierre Le Doussal (ledou@lpt.ens.fr).