Laboratoire de Physique Théorique et Hautes Energies

Unité Mixte de Recherche (UMR 7589) de Sorbonne Université et du CNRS

SEMINAIRE du LPTHE

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Unravelling Quantum Many Body Dynamics

Quantum statistical mechanics and condensed matter physics traditionally deal with the collective behaviour of systems in thermal equilibrium. Here remarkable phenomena are known to emerge at low energy, as a result of strong interactions and quantum statistics. Whether genuine quantum effects can survive far away from thermal equilibrium is a question which has recently attracted broad interest and found several theoretical and experimental motivations. In this talk I will review the recent progress in understanding the dynamics of strongly interacting quantum systems far from equilibrium. Along the way I will discuss the paradox of quantum thermalisation and its breakdown due to quenched disorder or quantum measurements.

Bibliothèque du LPTHE, tour 13/14, 4ème étage

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