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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ENS

Random quantum circuits

Quantum circuits are discrete-time models for many-body dynamics. They have a minimal amount of structure, making them a useful starting point for studying the out-of-equilibrium evolution of entanglement and correlations. Circuits are also a natural setting for defining broader classes of dynamics that involve measurement and feedback operations. In this talk I will define what random quantum circuits are, sketch one of the basic structures allowing analytical calculations, and describe an entanglement phase transition induced by repeated quantum measurement.

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