

Quantum Exclusion Process, Random Matrices and Free Cumulants

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The Quantum Symmetric Simple Exclusion Process (QSSEP) is a model of quantum particles hopping on a finite interval and satisfying the exclusion principle. I will explain how free cumulants, which are quantities arising in free probability and random matrix theory, encode the fluctuations of the invariant measure of this process when the number of sites goes to infinity.

Orateur: BIANE, Philippe (Laboratoire d'Informatique Gaspard Monge, Marne-la-Vallée)