

AG Zufallsmatrizen

Seminar

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Random matrix theory and its applications to entanglement studies, part II

Wigner introduced random matrices to model the heavy nuclei, which is a very complex system with many unknown details. The typical quantum state of such a system can be modeled by a random pure state. In this talk I will present various results on bipartite and tripartite entanglement in these states. Various applications of random matrix theory for this study will be shown. Extreme value statistics of random matrices will be shown to be useful in finding fraction of entangled states at critical dimensions. Finally, I will explain the effects of the large deviations of the extreme Schmidt eigenvalues on the entanglement.

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