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Factorizability of the partition function of the supermatrix model

mardi 28 juin 2022 11:00 (20 minutes)

In this talk we will focus on the supermatrix model which can be seen as a specific case of two-matrix models. The former has been introduced long time ago and it has been noticed or suggested that its properties might not drastically differ from ordinary one-matrix model, at least in the planar limit. We want here to present how the partition function of the supermatrix model actually differs from the ordinary one and how its factorized form can lead to further questions in terms of non-planar graphs and perturbative corrections. To illustrate these problems we will make connection with the Fermi gas description of ABJ theory introduced by Marino and Putrov.

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