

Large random matrices, random tilings and large deviations for non-intersecting random walks

mercredi 19 juin 2024 10:00 (1 heure)

Discrete Theta-ensembles generalize the distribution of random tiling in the same way that beta-ensembles generalize that of Gaussian matrices. Non-intersecting Bernoulli random walks generalize Dyson Brownian motion to the discrete ensemble. In this talk, I will discuss large deviations for these objects, with applications to study the asymptotics of Jack and Mac Donald polynomials. The techniques are based on the analysis of the so-called Nekrasov's equations which are discrete analogues of the loop or Dyson-Schwinger's equations. It generalizes to the discrete setting the large deviations for the Dyson Brownian motion derived by G-Zeitouni, see also G-Huang. This talk is based on a recent joint Jiaoyang Huang.

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