



Mathematics and CS Seminar

On the distribution and fluctuations of eigenvectors of random matrices

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Host: Laszlo Erdos

We will study different properties of eigenvectors of random matrices using the dynamical method. In the first part of the talk, I will discuss the distribution and the quantum unique ergodicity property of eigenvectors of deformed Wigner matrices. We will see that eigenvector entries are asymptotically Gaussian with a specific variance localizing them on a small part of the spectrum. The proof relies on a priori local laws for this model and the eigenvector moment flow. In the second part of the talk, I will give some insight in the study of the fluctuations of eigenvectors through the introduction of a new observable following the same eigenvector moment flow.

Thursday, January 17, 2019 04:00pm - 06:00pm

Big Seminar room Ground floor / Office Bldg West (I21.EG.101)



This invitation is valid as a ticket for the ISTA Shuttle from and to Heiligenstadt Station.

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<https://ista.ac.at/en/campus/how-to-get-here/> The ISTA Shuttle bus is marked ISTA Shuttle (#142) and has the Institute Logo printed on the side.