



Seminar/Talk

On the operator norm of a random matrix with a polynomially decaying metric correlation structure

Jana Reker

IST Austria

Host: Laszlo Erdős

In this talk, we consider a $N \times N$ Hermitian random matrix with a polynomially decaying metric correlation structure. Trivial a priori bound shows that the operator norm of this model is stochastically dominated by \sqrt{N} . However, by calculating the trace of the moments of the matrix and using the summable decay of the cumulants, the estimate on the norm can be improved to a bound of order one. This is a rotation project with László Erdős.

Thursday, January 21, 2021 04:15pm - 05:15pm

online via Zoom



This invitation is valid as a ticket for the ISTA Shuttle from and to Heiligenstadt Station. Please find a schedule of the ISTA Shuttle on our webpage: <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.