



Probability Seminar

Title: A random operator constructed from the representations of the symmetric group

Speaker: Sasha Sodin (QMUL)

Date: Wed 18th November 2020 at 3:00PM

Location: Online

Abstract: We shall discuss the construction of an amusing random operator acting on certain representations of the infinite symmetric group and sharing some features with the Anderson model. Particularly, we show that the spectrum of the operator exhibits so-called quantum Lifshitz tails, characteristic of d -dimensional random operators. The operator is also closely related to a randomised version of the fifteen puzzle on an infinite board; this connection plays a central role in the proof of the main result. Based on joint work with Ohad N. Feldheim.

Zoom Link: <https://ucd-ie.zoom.us/j/83491228915?pwd=WWV3ZkNGNzVXdGxLRlR0dkdMYUtMZz0>

Meeting ID: 834 9122 8915 Passcode: 698437