



Analysis Seminar

Title: Discrete Whittaker processes

Speaker: Neil O'Connell

Date: Tue 8th October 2024 at 3:00PM

Location: E0.32 (beside Pi restaurant)

Abstract: I will discuss a Markov chain on reverse plane partitions (of a given shape) which is closely related to fundamental Whittaker functions and the Toda lattice. This process has non-trivial Markovian projections and a unique entrance law starting from the reverse plane partition with all entries equal to plus infinity. I will also outline some connections with imaginary exponential functionals of Brownian motion, a random polymer model with purely imaginary disorder, interacting corner growth processes and discrete delta-Bose gas, and hitting probabilities for some low rank examples.

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