



Probability Seminar

Title: Koike-Schur-Weyl duality and Spin Networks: applications to unitary invariant random matrices

Speaker: Antoine Dahlqvist (University of Sussex)

Date: Mon 23rd March 2026 at 3:00PM

Location: E0.32 (beside Pi restaurant)

Abstract: In this talk, I will discuss about two algebraic tools which allowed recently to achieve new results for some unitary random matrices models. I will focus here on applications to two closely related models: the Atiyah-Bott-Goldman measure and the 2d Yang-Mills measure. I shall consider, for large $N \times N$ unitary matrices, the problems of convergence of moments and of large N expansions. This talk is based on the pre-publication [arXiv:2603.11374](https://arxiv.org/abs/2603.11374).