

## Limit Shapes From Skew Howe Duality

*jeudi 16 novembre 2023 10:15 (45 minutes)*

The dual Cauchy identity is the character version of the  $GL_n \times GL_k$  action on the exterior algebra of the natural representation. Additionally, (up to normalization) it is an example of a Schur measure on random partitions. By using other Lie groups (more precisely, dual reductive pairs), we can get analogous representation theoretic statements, which is known as skew Howe duality, and take the corresponding characters. In this talk, we will consider the measure by further specializing the characters to their dimensions to get a probability measure on partitions and describe their limit shapes for several dual reductive pairs. This is based on joint work with Anton Nazarov and Olga Postnova.

**Orateur:** Prof. SCRIMSHAW, Travis (Hokkaido University)