

Notions of Non-Commutative Independence

jeudi 20 juin 2024 16:30 (1 heure)

In this talk, I will start by illustrating matrix models relative to free, infinitesimal free, monotone, and c -free independencies. Notions of independence play a key role in studying joint distributions of non-commutative random variables and hence in studying limiting distributions of the associated random matrix models. I will illustrate in particular recent results relative to the monotone case.

Just as in the classical setting, to each notion of independence corresponds a central limit theorem. The second part of the talk will focus on the operator-valued setting, where I show quantitative results for the relative operator-valued central limit theorems.

Based on joint works with Arizmendi, Gilliers, Mai, & Tseng.

Orateur: BANNA, Marwa