

Séminaire de théorie des nombres

Le 10 février 2025 à 14h (Jussieu)

On some matrix counting problems

Exposé de Alina Ostafe
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Résumé : We consider some questions of arithmetic statistics for matrices of a given rank or fixed determinant or characteristic polynomial, whose entries are parametrised by arbitrary polynomials over the integers. In particular, some of our results improve a recent bound of V. Blomer and J. Li (2022) for counting matrices of given rank that are parametrised by monomials.

Joint works with Philipp Habegger, Ali Mohammadi and Igor Shparlinski.