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The planted matching problem

mercredi 29 janvier 2025 14:00 (45 minutes)

This talk will present some results on the planted matching problem, an inference problem where the goal is to recover a perfect matching hidden (planted) in a weighted graph, the weights on the planted and non-planted edges being drawn from two different distributions. The results are obtained with statistical mechanics techniques, and in particular a mapping to branching random walks.

Joint work with Gabriele Sicuro and Lenka Zdeborova, Phys. Rev. E 102, 022304 (2020).

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