

Tenseurs : information quantique, complexité et combinatoires quantiques

Tensors: Quantum Information, Complexity and Combinatorics

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**Tensor decomposition algorithms via
algebraic complexity**

In this talk, we will go over basic connection between tensors and special depth 3 arithmetic circuits. Building on this connection, we will discuss worst case and average case algorithms for tensor decomposition. In particular, we will see a worst-case algorithm for decomposing low-rank tensors, and an algebraic adaptation of the classic Jennrich's algorithm.