

Tenseurs : information quantique, complexité et combinatoires quantiques

Tensors: Quantum Information, Complexity and Combinatorics

Norbet Schuch
(University of Vienna)

**Fundamental theorems of tensor networks and
what to use them for**

Fundamental theorems of tensor networks assess the question when two different tensor networks represent the same quantum state (or generally, multi-dimensional object). In my talk, I will give an overview over some known fundamental theorems for tensor networks, and highlight a range of applications, such as in the classification of phases and the numerical study of many-body systems.