

Guillaume Aubrun: Convex geometry and high-dimensional entanglement

mercredi 7 juin 2017 10:30 (1 heure)

We will consider the phenomenon of quantum entanglement from the point of view of high-dimensional convex geometry. We estimate several geometric invariants (volume, mean width, approximability by polytopes) associated with the convex set consisting of all unentangled quantum states, and with the dual set. This information can be translated into results about the complexity of entanglement, or about the entanglement of random quantum states.