

Overview: from qubits to space-time

Wednesday 22 June 2016 10:00 (1 hour)

In this talk I will make an overview of how space-time properties emerge from the entanglement structure of many-body wavefunctions. I will mainly focus on the connection between Entanglement Renormalization and AdS/CFT, but I will mention briefly other topics such as the appearance of spin networks in symmetric tensor networks, and the definition of “entanglement Hamiltonians” through a bulk-boundary correspondence for Projected Entangled Pair States. I will also discuss several open questions along these directions.

Presenter: ORÚS, Román