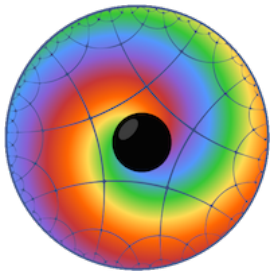

Contribution ID: **23** Type: **not specified**

Holographic entanglement entropy in excited states from 2d CFT

Thursday, 16 April 2015 09:40 (40 minutes)

I will consider the entanglement entropy in 2d conformal field theory in a class of excited states produced by the insertion of a heavy local operator. I will discuss the universal contribution from the stress tensor to the single interval entanglement entropy, and conjecture that this dominates the answer in theories with a large central charge and a sparse spectrum of low-dimension operators. The resulting entanglement entropy agrees precisely with holographic calculations in three-dimensional gravity. I will illustrate this in two examples: high-energy eigenstates of the Hamiltonian and local quenches.

Presenter: BERNAMONTI, Alice

Session Classification: Morning session