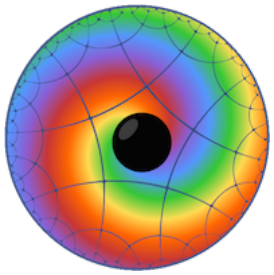

Contribution ID: **48** Type: **not specified**

Entanglement and differential entropy for massive flavors

Friday, 17 April 2015 14:20 (40 minutes)

In this talk we will discuss entanglement entropy for massive flavors, from both holographic and field theory perspectives. We will describe efficient computational methods for the holographic entanglement entropy of brane systems, and we will show that the holographic entanglement entropy agrees precisely with field theory expectations. We will explain how to extract finite terms in the the entanglement entropy unambiguously and give physical interpretations to these finite contributions. Finally we will discuss the differential entropy for such systems, arguing that (in contrast to earlier work) the differential entropy does not capture global spacetime structure.

Presenter: TAYLOR, Marika

Session Classification: Afternoon session