

Bubbles from Dark Confinement with Holography

Monday 15 May 2023 14:35 (35 minutes)

In this talk, we demonstrate how to predict the gravitational wave spectra of Strongly coupled QFTs using holography and lattice data input for a pure SU(3) Yang-Mills theory with minor uncertainties. We will elaborate on how we obtain an effective potential using holography with the free energy landscape approach and formulate an effective action. Once the effective action is in our grasp, we will use this to study bubble nucleation to predict the gravitational wave spectra. Furthermore, we will discuss how the bubble wall velocity computations can be made in steady-state configurations using holographic techniques by computations of the plasma friction force.

Primary authors: MORGANTE, Enrico (JGU Mainz); Mr RAMBERG, Nicklas (Johannes gutenbergs universität Mainz); SCHWALLER, Pedro (University of Mainz)

Presenter: Mr RAMBERG, Nicklas (Johannes gutenbergs universität Mainz)