

Contribution ID: 1

Type: not specified

Symmetries of TTbar-deformed CFTs and their holographic avatars

Tuesday 17 January 2023 09:00 (1 hour)

I will discuss the classical and quantum symmetries of TTbar-deformed CFTs. These symmetries are infinite in number and, in a certain basis, organise into a Virasoro x Virasoro algebra with the same central charge as that of the undeformed CFT. I will present a quantum, abstract proof of the existence of these symmetries and three different - and fully explicit - classical perspectives: Hamiltonian, Lagrangian and holographic. Finally, I will show that the asymptotic symmetries of the three-dimensional asymptotically linear dilaton background in string theory, which is conjecturally dual to the "single-trace" TTbar deformation, take an identical form to those of TTbar-deformed CFTs, thus further strengthening this proposed connection.

Presenter: GUICA, Monica (Paris Saclay)