

Speaker: V. Taghiloo

Title: Freelance Holography

Abstract:

AdS/CFT provides the most well-established example of holography, positing a duality between a quantum gravitational theory in an asymptotically AdS spacetime and a quantum field theory living on its asymptotic timelike boundary. However, this framework comes with certain limitations: it is confined to the asymptotic boundary, and the bulk gravitational fields are required to satisfy Dirichlet boundary conditions. In this talk, I will present a formulation of holography at finite distances in AdS spacetimes, which accommodates arbitrary boundary conditions for the bulk fields. We refer to this approach as freelance holography — a generalization that liberates the standard AdS/CFT duality from the constraints of Dirichlet conditions and asymptotic boundaries.