ICTS String Seminar

Title : Semiclassical strings and holography beyond AdS

Speaker : Meseret Asrat (ICTS-TIFR, Bengaluru)

Date : Wednesday, 3rd July 2024

Time : 3:00 PM (IST)

Abstract : We consider certain rigidly rotating closed string solutions in an asymptotically non-AdS string background. The string background is a deformation of AdS_3 × M_7 with NSNS two-from B field. It interpolates between AdS_3 and asymptotically linear dilaton IR × S^1 × IR spacetime (times the internal compact manifold M_7). In the long string sector and weak coupling regime the deformation is dual to a single trace TTbar deformed symmetric product theory. We compute the quantity E −J for rotating folded and cusped closed strings, where E is the energy and J is the angular momentum of the strings. In the two dimensional CFT dual to string theory on AdS_3 (times M_7) it gives the anomalous dimensions of certain twist two and higher operators. We discuss the structure of (large angular momentum J expansion) of E − J and what it measures away from the CFT along the deformation in the coupling space. We also compute the closely related cusp anomalous dimension of a light-like Wilson loop. We also give semiclassical results for the spectrum of non-spinning pulsating strings.

Venue : Emmy Noether Seminar Room

Zoom Link: https://icts-res-in.zoom.us/j/88092766911?pwd=R3ZrVk9yeW96ZmQ4ZG9KRzVhenRKZz09
Meeting ID: 880 9276 6911
Passcode: 232322