

ICTS Seminar

Title : Rotating CFTs : Thermality and hydrodynamics

Speaker : Pinaki Banerjee, ICTS-TIFR, Bangalore

- Date : Friday, July 27, 2018
- Time : 3:30 PM

Venue : Emmy Noether Seminar Room, ICTS Campus, Bangalore

Abstract : In this talk I shall discuss about CFTs on higher dimensional sphere at finite temperature and finite angular potentials. For large radius of the sphere and small angular potentials, CFTs behave like rotating fluid at finite temperature. We compute sphere partition functions for free and holographic (strongly coupled) CFTs. We also compute low lying generic primary spectra and average thermal one point functions for some CFTs in diverse spacetime dimensions. Going to microcanonical ensemble we try to extract corresponding hydrodynamic coefficients from the density of states. This is a work in progress with Rahul Dandwate, R. Loganayagam, Aswin P M and Mukund Rangamani.