



ICTS PhD Synopsis Seminar

Title : Effective theory of fluctuating hydrodynamics from holography

Speaker : Akhil Sivakumar (ICTS-TIFR, Bangalore)

Date : Tuesday, 26th April 2022

Time : 10:30 am (IST)

Abstract : Fluid/Gravity correspondence suggests that the long wavelength deformations of AdS blackbranes are dual to configurations of a dissipative fluid. We revisit this duality, now with the aim of incorporating the effect of Hawking radiation from the blackbrane. We argue that this problem is equivalent to constructing a theory of fluctuating hydrodynamics. We explicitly derive the effective description of a simmering holographic neutral plasma by studying and Hawking excitations of the Schwarzschild-AdS_{d+1} blackbrane.

Venue : Online & Madhava Lecture Hall (ICTS)

Zoom link: <https://icts-res-in.zoom.us/j/83865241590?pwd=aW1CQU5rcTRaeVZ1ektT2lFYmxxdz09>

Meeting ID: 838 6524 1590

Passcode: 262622