



## ICTS PhD Seminar

**Title** : Effective theory of fluctuating hydrodynamics from holography

**Speaker** : Akhil Sivakumar (ICTS-TIFR, Bangalore)

**Date** : Thursday, 15th September 2022

**Time** : 2:30 PM (IST)

**Abstract** : Fluid/Gravity correspondence suggests that the long wavelength deformations of AdS black branes are dual to configurations of a dissipative fluid. We revisit this duality with the aim of incorporating the effect of Hawking radiation from the black brane. We argue that this problem is equivalent to constructing a theory of fluctuating hydrodynamics. We obtain an effective description of a simmering holographic neutral plasma by studying the Hawking excitations around the Schwarzschild-AdS<sub>d+1</sub> black brane.

**Venue** : Online & Madhava Lecture Hall (ICTS)

Zoom link: <https://icts-res-in.zoom.us/j/83605256203?pwd=c1VkbzIFTlorWUtdkNyVjgraUdGZz09>

Meeting ID: 836 0525 6203

Passcode: 151522

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