

## **ICTS Postdoc/Graduate Student Seminar Series**

Title : "Applied" String Theory: Brownian motion from gravity

Speaker : Pinaki Banerjee, ICTS-TIFR, Bangalore

Date : Friday, September 15, 2017

Time : 11:15 AM

Venue : Emmy Noether Seminar Room, ICTS Campus, Bangalore

Abstract : Gauge/gravity duality or holography is one of the most influential discoveries in modern theoretical physics. It relates some particular quantum field theories to gravitational theories. This duality is a conjecture which was proposed by Juan Maldacena in 1997. Although there is no rigorous proof even after 20 years, this conjecture has passed many non-trivial checks and widely believed to be correct. In this talk I shall primarily discuss about the motivations, "derivation" and usefulness of this duality in a colloquial way. As an illustration, I shall briefly discuss Brownian dynamics in this holographic framework.

Note: This will be an ongoing biweekly seminar series (Fridays, 11:15 am) by the ICTS postdocs and graduate students