



## **ICTS String/Math-Phys Seminar (HYBRID)**

**Title** : Part – I: Connections between number theory and physics

**Speaker** : Abhiram Kidambi (IPMU Japan)

**Date** : Thursday, 27<sup>th</sup> April, 2023

**Time** : 02:00 pm (IST)

**Abstract** : Over the past few decades, the interface of number theory and physics, especially string theory has led to important physical and mathematical advancements. Techniques in number theory are a vital knowhow in the toolkit of a modern mathematical physicist. In these lectures, we shall go over some of these topics from the basics. These topics could include automorphic forms, L-functions and elliptic curves. We will then see how these different topics play a role in physics. (Some examples include BPS state counts and the attractor mechanism, wall crossing phenomena, moonshine, rational CFT, generalized Hilbert-Polya problems, quantum chaos).

**Venue** : **Offline:** Madhava Lecture Hall (ICTS)

**Online:** Please click the below link to join the seminar.

<https://icts-res-in.zoom.us/j/86487998213?pwd=UTY1S3EzSkFhK0c1SjdXMXp0MENDQT09>

Meeting ID: 864 8799 8213

Passcode: 272728