



## **ICTS String Seminar (HYBRID)**

**Title** : Beauty And The Beast Part 2: Apprehending The Missing Supercurrent

**Speaker** : Ranveer Kumar Singh (Rutgers University)

**Date** : Wednesday, 18<sup>th</sup> September, 2023

**Time** : 11:00 AM (IST)

**Abstract** : The Moonshine module is a  $c = 24$  conformal field theory (CFT) whose automorphism group is the Monster group. In a 1988 paper, it was argued by Dixon, Ginsparg, and Harvey that there exists a "non-local  $Z_2$  cover" of the Moonshine CFT with superconformal symmetry. But they did not provide an explicit construction of a superconformal current. In this talk, I will explain the precise notion of a " $Z_2$  cover" of a CFT, called spin lift in modern terminology, and describe how to explicitly construct a supercurrent in the spin lift of the Moonshine CFT using error correcting codes.

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

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

<https://icts-res-in.zoom.us/j/88092766911?pwd=R3ZrVk9yeW96ZmQ4ZG9KRzVhenRKZz09>