ICTS String Seminar

Title   : Quasi-characters revisited

Speaker   : Sunil Mukhi (Indian Institute of Science Education and Research Pune)

Date   : Wednesday, 16 July 2025

Time   : 3:30 PM (IST)

Abstract : The modular differential equations that allow us to find rational 2d CFTs have additional solutions that do not correspond to CFT, called "quasi-characters". In the two-character case these have been classified and shown to form a linear basis for all possible admissible characters. The solutions are found to have curious properties, including that the "degeneracies" alternate in sign only up to dimension $c/12$, and have a fixed sign beyond that. I will review the construction and use of quasi-characters and describe recent work to prove these curious properties. This also leads to a way to estimate degeneracies in the intermediate region where the dimensions are of order c, which could have applications to normal characters as well.

Venue   : Feynman Lecture Hall
Zoom Link: https://icts-res-in.zoom.us/j/88092766911?pwd=R3ZrVk9yeW96ZmQ4ZG9KRzVhenRKZz09
Meeting ID: 880 9276 6911
Passcode: 232322