



ICTS String Seminar

Title : Localization of strings on group manifolds

Speaker: Sameer Murthy (King's College London, United Kingdom)

Date : Monday, 15 December 2025

Time : 3:30 PM (IST)

Abstract: I will discuss how the technique of supersymmetric localization can be adapted to calculate

exact bosonic path integrals in a class of theories where the fermions decouple from the bosons. I will then show how this method can be used to calculate the partition function of the WZW model as a sum over classical solutions. I will discuss SU(2) in some detail, as well as two related models: SL(2) and hyperbolic 3-space, i.e. Euclidean AdS3. In all these cases, the exact partition function essentially follows from the knowledge of symmetries and of free fermions.

Venue : Chern Lecture Hall

Zoom Link: https://icts-res-in.zoom.us/i/88092766911?pwd=R3ZrVk9yeW96ZmQ4ZG9KRzVhenRKZz09

Meeting ID: 880 9276 6911

Passcode: 232322