



ICTS String Seminar (HYBRID)

Title : On production of excited Kaluza-Klein states in large radius compactification scenario

Speaker : Jnanadeva Maharana (IOP, Bhubaneswar)

Date : Wednesday, 9th August, 2023

Time : 03:30 PM (IST)

Abstract : Production of Kaluza-Klein states at LHC is considered in the large radius compactification scenario. We start with a scalar field in five dimensional spacetime. One spatial dimension is compactified on a circle of radius R which is assumed to be in the range of TeV according to LRC paradigm. Instead of considering a detailed model, we use general field theory postulates to derive bounds on (i) total inelastic cross section and (ii) differential cross section near forward direction. Properties of these bounds will be discussed.

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>

Meeting ID: 880 9276 6911

Passcode: 232322