

ICTS String Seminar (HYBRID)

- **Title** : \$AdS_2/CFT_1\$ holography at finite charge density
- Speaker : Hemant Rathi, IIT Roorkee
- **Date** : Thursday, 31st August, 2023
- **Time** : 03:00 PM (IST)
- Abstract : I will briefly discuss \$AdS_2/CFT_1\$ holography, also known as JT/SYK duality, and explore various generalizations of JT gravity involving \$U(1)\$ gauge fields and \$SU(2)\$ Yang-Mills interactions. In particular, we will investigate the effects of non-trivial gauge couplings on the thermal properties of black holes/wormholes and examine the possibilities of the Hawking-Page transition and wormhole to black hole phase transition in two dimensions. Additionally, we will examine the transformation properties of the boundary stress-energy tensor under diffeomorphism and U(1) gauge transformation, thereby computing the central charge associated with the 1D boundary theory.
- 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