

## **ICTS Seminar (Bangalore Probability Seminar)**

**Title** : Escape in Open Dynamical Systems

**Speaker** : Nikita Agarwal (IISER Bhopal)

**Date** : Monday, 11<sup>th</sup> March 2024

**Time** : 03:00 PM (IST)

**Abstract** : Dynamical systems in which the orbit of a point may escape from the state space through a hole are classified as open dynamical systems. Escape rate represents the average rate at which the orbits escape into the hole. This depends on the size and the position of the hole in the state space. Larger the escape rate, faster the orbits terminate. In this talk, we will present results on an open dynamical system namely subshifts of finite type with a hole. We will examine the dependence of the escape rate on the position and the size of the hole, using techniques from ergodic theory, symbolic dynamics and combinatorics.

**Venue** : Offline: Madhava Lecture Hall

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

<https://us02web.zoom.us/j/88670406480>

Meeting ID: 886 7040 6480