

ICTS Mathematics Seminar

Title: Intersections of random walks

Speaker: Trishen Gunaratnam (Tata Institute of Fundamental Research, Mumbai)

Date : Wednesday, 11 June 2025

Time : 10:30 AM (IST)

Abstract: Random walks are amongst the most fundamental objects in probability theory. Although

simple to define, they exhibit a rich phenomenology and their rigorous study has led to the development of deep and beautiful math. Beyond their intrinsic interest, random walks play a significant role in the study of various other models of statistical physics and even have applications to quantum field theory. In this talk, I will discuss the intersection behaviour of random walks on the hypercubic lattice \mathbb{Z}^d . I will give glimpses of triviality phenomena in high

dimensions and intersection exponents in low dimensions.

Venue : Madhava Lecture Hall

Offline Mode