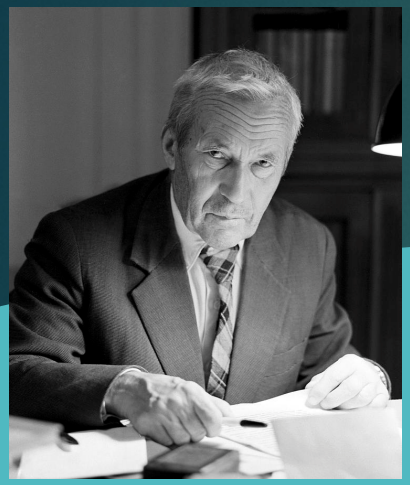
IIT GUWAHATI MATHEMATICS SEMINAR SERIES

presents a talk by

Dr. Manjunath Krishnapur, Associate Professor, Department of Mathematics, IISc. Bangalore

as part of Kolmogorov Day celebration.

Title of the Talk: Determinantal Point Processes – A Survey



Andrey Nikolaevich Kolmogorov (25 April 1903 – 20 October 1987) was a Soviet mathematician who made significant contributions to the mathematics of probability theory, intuitionistic logic, turbulence, classical mechanics, algorithmic information theory and computational complexity.

In 1929, Kolmogorov earned his Doctor of Philosophy (Ph.D.) degree, from Moscow State University. In 1933, Kolmogorov published his book, *Foundations of the Theory of Probability*, laying the modern axiomatic foundations of probability theory and establishing his reputation as the world's leading expert in this field.

In his study of stochastic processes, especially Markov processes, Kolmogorov and the British mathematician Sydney Chapman independently developed the pivotal set of equations, known as Chapman–Kolmogorov equations.

Kolmogorov is also well known for his contributions to Theoretical Computer Science. He is considered a founder of algorithmic complexity theory – often referred to as Kolmogorov complexity theory.

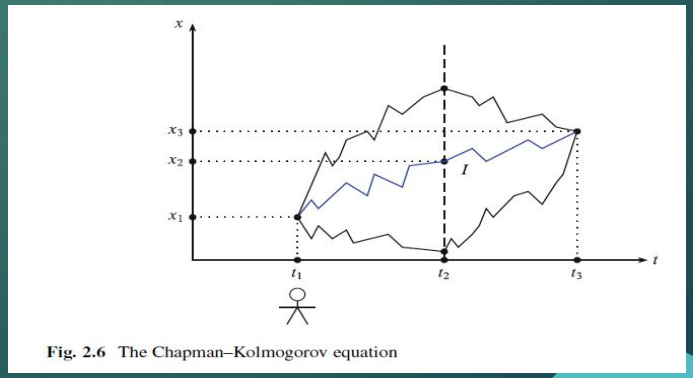


Fig. 2.6 The Chapman–Kolmogorov equation

Before joining IISc, Bangalore, Dr. Krishnapur obtained his doctoral degree from University of California, Berkley. Prior to that he completed BStat and MStat from Indian Statistical Institute.

Dr. Kishnapur's research interest lies primarily in the field of Probability Theory. More specifically he works in the areas of Random Matrix Theory, Random Analytic Functions, Determinantal Point Processes.

Venue: Lecture Hall 4 **Date: 25th April, 2019** **Time: 5:00 PM**