



May 12 Initiative 2025

CELEBRATING WOMEN IN MATHEMATICS

at the
School of Physical Sciences
Jawaharlal Nehru University
New Delhi, India



Maryam Mirzakhani

May 12, 1977 - July 14, 2017
Fields Medalist 2014

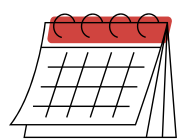
SPEAKER



Sneha Chaubey
Associate Professor
IIIT Delhi

Title: Rational numbers with bounded denominators and their role in prime number distribution

Abstract : Sequences of rational numbers with denominators bounded by a given quantity, known as Farey sequences, are very useful tools in many mathematical problems. For example, they play an important role in Diophantine approximation, where one studies the best possible approximations to real numbers by rational numbers; in additive problems such as Goldbach Conjecture; and in multiplicative number theory, via their connection to the Riemann Hypothesis. It is this third connection that we will pay special attention to in this talk. We will explore such connections for Farey subsequences and if time permits also discuss the local spacing distribution of Farey subsequences.



May 5, 2025



Seminar Hall, SPS



2:30 pm

- 2:30 pm : Welcome address by Prof. Sobhan Sen, Dean SPS
- 2:40 pm : Introduction to May 12 Initiative and Women in Mathematics
- 3 pm : Talk by Prof. Sneha Chaubey
- 4 pm : Film “Secrets of the Surface: The Mathematical Vision of Maryam Mirzakhani”
- 5 pm : Tea

All are welcome