



May 12 Initiative 2026

CELEBRATING WOMEN IN MATHEMATICS



Maryam Mirzakhani

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

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

SPEAKER



Dr. Dalu Jacob
Assistant Professor
IIT Delhi

Title : Graph Coloring : From Beautiful Theorems to Modern Challenges

Abstract : This talk introduces the foundations of graph coloring through motivating examples and classical results. Beginning with the famous map-coloring problem, we will discuss vertex coloring, chromatic number, and landmark results such as the Four Color Theorem. These ideas not only reveal elegant mathematical structures but also provide natural models for real-world optimization problems, where minimizing the number of colors corresponds to efficient use of limited resources. Beyond these classical questions, graph coloring continues to drive modern research in combinatorics and algorithms. Variants of coloring motivated by practical constraints—such as evolving networks, additional domination requirements, or restrictions on graph structure—lead to challenging new problems with both theoretical and applied significance.



May 19, 2026



Seminar Hall, SPS



3:00 pm

- 3:00 pm : Welcome address by Prof. Pritam Mukhopadhyay, Dean SPS
- 3:10 pm : Introduction to May 12 Initiative and Women in Mathematics
- 3:30 pm : Talk by Dr. Dalu Jacob
- 4:30 pm : Screening of the film “Je suis Sophie Germain”(with english subtitles)
- 5:00 pm : Tea

All are welcome