

Science at the Sabha 2025

09 • 02 • 2025
MUSIC ACADEMY
4pm to 8pm

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<https://www.imsc.res.in/outreach/scisabha/2025/>

CHALLENGES OF RELOCATION: CASE STUDY OF ANTS

Annagiri Sumana, *IISER Kolkata*

Glimpse into the lives of ant colonies as they find and move into a new nest. We will see how ants overcome the challenges of moving to a new home using strategies that have evolved over millions of years.



A GENTLE INVITATION TO NUMBER THEORY

U K Anandavardhanan,
IIT Bombay

The theory of numbers is known for its rich supply of questions which are easy to ask but difficult to answer. The fascinating story of such questions is illustrated through the example of the “congruent number problem”: one of the oldest open problems in mathematics.



SHADOWS AND LIGHT: THE THRILLING ODYSSEY OF TRUSTED AI

Richa Singh, *IIT Jodhpur*

As Artificial Intelligence (AI) becomes more integrated into our lives, there are growing concerns about its reliability, fairness, and ethical use. Responsible practices for creating and using AI systems, can help us build trustworthy AI that benefits everyone.



IN A DISORDERED WORLD

Pinaki Chaudhuri, *IMSc*

‘Disordered systems’, like glass, foam and sand piles, lack regular structure making their mechanics unique and fascinating. Understanding how they deform and break reveals insights into natural and engineered materials all around us.



No special knowledge of science is necessary to appreciate the talks. Participation is by online registration only, which is free & open to all.

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