INDIAN ACADEMY OF SCIENCES

92nd ANNUAL MEETING

13–14 November 2026

SPECIAL LECTURE

Legendre Polynomials in Number Theory



Chairperson: Prof. Raghavan Varadarajan
President, IASc

PROF. U K ANANDAVARDHANAN
IIT BOMBAY

13 November 2026 (Friday)
18:30–19:30 hrs

Nila Auditorium
NCESS,Thiruvananthapuram

Prof. Anandavardhanan is an Indian mathematician specialising in automorphic forms and representation theory. He was awarded the Shanti Swarup Bhatnagar Prize for Science and Technology, the highest science award in India, for the year 2020 in the mathematical science category. He is affiliated with the Indian Institute of Technology, Bombay. After completing undergraduate studies at the University of Calicut, he joined the University of Hyderabad for higher studies.

He secured an M.Sc. in Mathematics in 1998 and a PhD in 2003. He was with the Tata Institute of Fundamental Research from February 2003 to July 2005 and spent the spring of 2004 at the University of Iowa. He has been a faculty member at IIT Bombay since July 2005. He is a Fellow of IASc since 2024. He is the recipient of the prestigious Shanti Swarup Bhatnagar Prize award, and has also been conferred several awards, including Asian Scientist 100, Asian Scientist (2021), Young Scientist Platinum Jubilee Award (NASI) 2009, and INSA Medal for Young Scientist (2008).

Abstract

The French mathematician Adrien-Marie Legendre introduced Polynomials nearly 250 years ago. They come up in almost all areas of mathematics (and in other sciences and engineering too).

The talk would give an overview of some basic properties of these polynomials and illustrate a few ways in which they appear in algebra and number theory. The talk will be self-contained, and no prerequisites are assumed.

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ALL ARE WELCOME