



गणित विभाग  
DEPARTMENT OF MATHEMATICS  
दिल्लीविश्वविद्यालय, दिल्ली-10007  
UNIVERSITY OF DELHI, DELHI – 110007

Cordially invites you to an Invited talk as per following details

- Day and Date : Monday, December 02, 2024
- Time : 12:00 (noon)
- Venue : Room No. - 05 (Ground Floor)  
Satyakam Bhawan  
Department of Mathematics  
University of Delhi - 110007
- Title : The Hardy--Littlewood Maximal Theorem beyond  
Euclidean Spaces
- Speaker : Dr. Pratyoosh Kumar
- Affiliation : Department of Mathematics  
Indian Institute of Technology Guwahati  
Guwahati, Assam
- Abstract : One of the objectives of this talk is to formulate and prove the fundamental theorem of calculus in a more general setting. The Hardy–Littlewood maximal theorem plays a pivotal role in harmonic analysis, providing essential bounds for maximal functions in Euclidean spaces. These bounds serve as the foundation for the Lebesgue differentiation theorem, which guarantees the almost everywhere convergence for certain integral averages. In this presentation, we will discuss the Hardy–Littlewood maximal theorem to non-Euclidean settings, including metric measure spaces, Riemannian manifolds, and spaces of homogeneous type.

  
HEAD

Department of Mathematics