

INVITED TALK

by

Prem Prakash Pandey

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entitled

Prime Generating Functions

Abstract: Study of primes is a subject from antiquity. Starting with the famous theorem of Euclid, several results on the distribution of primes have been obtained and speculated. With the realization of the importance of primes in the security of online communications, the field has seen tremendous interest in recent times (specially people from outside Mathematics). One particular, related, aspect is 'how to find large primes?' This brings us to prime generating functions. The quest for prime generating functions is never ending. Can we find polynomials which take only prime values? Various possibilities of this nature will be highlighted in the talk. Then we will delve into the concept of class groups. A connection between the two topics will be highlighted.

Prem Prakash Pandey did his initial schooling in UP. Then he shifted to Vadodara for further education, and later completed his masters from The M. S. University of Baroda. He did his Ph.D. from the Institute of Mathematical Sciences (IMSc), Chennai. His area of research is class groups of number fields and related topics.



January 20, 2025
11:00 A.M.



Research
Scholar Room

Tarun Kumar Das

Head, Department of Mathematics