



INDIAN STATISTICAL INSTITUTE

Theoretical Statistics and Mathematics Unit, Kolkata

LECTURE

Date: July 06, 2023, Thursday
Time: 04:15 PM

VENUE:

L-infinity

(5th Floor, A.N. Kolmogorov Bhavan), ISI Kolkata

TITLE:

Gaussian and Poisson behaviour of small quadratic non-residues.

SPEAKER:

Kunjakanan Nath

University of Illinois at Urbana-Champaign, USA

ABSTRACT:

We will discuss the Gaussian and the Poisson behaviour of small quadratic non-residues for almost all primes in short intervals. We will begin with some background on quadratic non-residues and then briefly outline the proof. The proof uses the method of moments in conjunction with sieve methods and algebraic inputs coming from counting solutions of polynomial equations. This is joint work with Debmalya Basak and Alexandru Zaharescu.

ALL ARE CORDIALLY INVITED