



INDIAN STATISTICAL INSTITUTE

Theoretical Statistics and Mathematics Unit, Kolkata

Number Theory Seminar

Date: September 12, 2024

Time: 02:30 PM

VENUE:

L- infinity

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

TITLE:

Circle method over function fields

SPEAKER:

Sampa Dey

Stat-Math Unit, ISI, Kolkata

ABSTRACT:

In this talk we will see an overview of the circle method over $\mathbb{F}_q(t)$, and will discuss some applications at the end. We will closely follow the work by Browning-Vishe[1], and Vishe[2].

*References: [1] Rational points on cubic hypersurfaces over $\mathbb{F}_q(t)$. T. D. Browning, P. Vishe. *Geom. Funct. Anal.* 25(2015), no.3, 671–732.*

*[2] Rational points on complete intersections over $\mathbb{F}_q(t)$. P. Vishe *Proc. Lond. Math. Soc.* (3)126(2023), no.2, 556–619.*

ALL ARE CORDIALLY INVITED