



INDIAN STATISTICAL INSTITUTE

Theoretical Statistics and Mathematics Unit, Kolkata

Number Theory Seminar

Date: December 19, 2024

Time: 02:30 PM

VENUE:

L- infinity

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

TITLE:

On Siegel Eisenstein series of degree 2

SPEAKER:

Manami Roy

Lafayette College, Easton, USA

ABSTRACT:

In this talk, we will consider the classical Siegel Eisenstein series of weight k and degree 2 in an adelic setting using the method known as "Hecke Summation". In the process, we recover the classical Fourier series expansion of the Siegel Eisenstein series from the adelic setting. One of our goals is to determine the automorphic representations generated by the Siegel Eisenstein series, particularly for weight $k=2$, where the representation is highly reducible. First, we will discuss the recent results of the classical and adelic Eisenstein series for $GL(2)$. Then, we will talk about ongoing work on the Siegel Eisenstein series. This is a joint work with Ralf Schmidt and Shaoyun Yi.

ALL ARE CORDIALLY INVITED