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THE WEIZMANN INSTITUTE OF SCIENCE  
FACULTY OF MATHEMATICS AND COMPUTER SCIENCE  
Algebraic Geometry and Representation Theory Seminar

on Wednesday, Jul 14, 2021 at 16:30

<https://weizmann.zoom.us/j/98304397425>  
Dihua Jiang University of Minnesota

Certain Poisson Summation Formulae on  $GL(1)$  and Langlands Automorphic L-functions

Abstract:

In Tate's famous thesis, harmonic analysis on  $GL(1)$  was used to establish the global functional equation for Hecke L-functions. In this talk, I will discuss possibilities to define more general Fourier operators and their associated Poisson summation formulae on  $GL(1)$ , which are expected to be responsible for the global functional equation of general Langlands automorphic L-functions. This is a progress report of my joint work with Zhilin Luo.