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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.