

“But mathematics is the sister, as well as the servant, of the arts and is touched with the same madness and genius.”

— Harold Marston Morse

“I have great silent thanks to God. For I knew that if, as children, you could thus feel in your souls the reverence and awe for life and the world, which is the ultimate meaning of Beethoven and Shakespeare, as a man and woman you could never be satisfied with less.”

— Whittaker Chambers

The Trivial Notions Seminar
Proudly Announces

Spherical Whittaker functions

A talk by
Pei-Yu Tsai

Abstract

Fourier analysis allows one to understand a function by simpler pieces and sometimes reconstructs back the original function. The Fourier coefficients of a classical modular form gives the L -function, which is the central ingredient of the Langlands conjecture. In this talk we will talk about the Whittaker-Fourier coefficients of an automorphic form and the Whittaker functions as its local analogue. The famous local uniqueness of the Whittaker functionals gives the Multiplicity One Theorem for $GL(n)$. As cuspidal representations are unramified/spherical on almost all local places, we will give an explicit construction on spherical Whittaker functions at each unramified local place.

Thursday April 19th, at 2:00 pm
Science Center 310