

SPEAKER: Nolan Wallach (UC San Diego)

TITLE: Whittaker vectors and Fourier coefficients of automorphic forms

ABSTRACT: The classical theory of automorphic forms yields number theoretic information through the distribution of Fourier coefficients of automorphic forms at the cusps. When these automorphic forms are interpreted representation theoretically the Fourier coefficients become matrix coefficients of (generalized) Whittaker vectors. This lecture will give a short explanation of this relationship and the role of multiplicity one theorems. We will then survey some multiplicity theorems.