

*Department of Mathematics,
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Math 209 - Number Theory

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UCSD

Whittaker Theory I: Applications to number theory at the infinite place and the ingredients of Whittaker Plancherel Theorem

Abstract:

Today the main emphasis in local number theory (i.e the Local Langlands) is on the finite places. In characteristic 0 the infinite place is the “elephant in the room”. This is especially true in the Whittaker Theory in which serious difficulties separate the infinite from the finite places. Whittaker models were developed to help the study of Fourier coefficients at cusps of non-holomorphic cusp forms (i.e Maass cusp forms) through representation theory. The first of these lectures will start with an explanation of the role of Whittaker models in the theory of automorphic forms. It will continue with a description of the main results. The second lecture will explain the proof of the Whittaker Plancherel Theorem.

Special Note:

There will be a prep-talk for graduate students and postdocs in the seminar room, 1:20-1:50pm.

Host: Cristian Popescu

Thursday, October 11, 2018

2:00 PM

AP&M 7421
