Representations of p-adic Groups Part 1

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This is the first part of an advance year long course in representation theory.

In this course we will study the representation theory of algebraic reductive groups over a p-adic field F. This theory plays an important role in the theory of automorphic forms.

In the second semester we discuss the notion of general reductive group over p-adic field F and see how to generalize the results proved for the groups GL(n,F) to general reductive groups.

Books

We wiil use as the main source the lectures by J. Bernstein that can be found on his homepage. **Representations of p-adic Groups**

Home works.

I will be giving problem assignments. These problem assignments are the integral part of the course - they will contain many important points for which there is not enough time in the course itself.