ORDINARY FAMILIES FOR DEFINITE UNITARY GROUPS

BASKAR BALASUBRAMANYAM

In these lectures, we study families of autormorphic forms on definite Unitary groups. The material will divided as follows:

- (1) In the first lecture, we will define automorphic forms on definite unitary groups.
- (2) We study the Hecke algebras associated to these forms.
- (3) We construct Hida families via a control theorem for the ordinary Hecke algebras.
- (4) We associate Galois representations to these automorphic forms.

The main reference for these lectures is $[1, \S 2]$.

References

[1] D. Geraghty. Modularity lifting theorems for ordinary Galois representations, Preprint available at https://www2.bc.edu/david-geraghty/