Thomas RUD : *Admissibility of representations of groups acting strong-transitively on thick affine buildings*

Abstract A lot of the representation theory of p-adic groups rely on very building-theoretic decompositions. A classic example of that would be the proof of the uniform admissibility of irreducible representations done by Bernstein. One can wonder if the same results are true for any group with BN-pair that act strong-transitively on its building. Indeed, uniform admissibility results have been shown on the automorphism group of k-regular infinite trees by Olshanskii. Such groups with associated buildings have an automatic totally disconnected locally compact structure, and therefore an idempotented Hecke algebra. A particular consequence of this fact is that we can show that the questions of uniform admissibility of irreducible smooth representations and irreducible unitary representations are equivalent. Overall this talk is very basic and can be interesting for someone new to the representation theory of Hecke algebras.