Monday May 2, 2016: Special day, time, and place: Monday, 2:00, room 2-449

Martin Solleveld (Universitet Nijmegen), *Cuspidality and Hecke algebras for Langlands parameters.*

The (conjectural) local Langlands correspondence relates representations of a reductive p-adic group to representations of the Weil-Deligne group of that p-adic field. Some notions are easily formulated on both sides of the correspondence, for example temperedness of representations reflects boundedness of L-parameters. Unfortunately, some other important objects on the p-adic side of the LLC do not have an obvious counterpart on the Galois side, or only in specific cases.

In this talk we will discuss what the analogues of supercuspidal representations and of affine Hecke algebras for Bernstein components are for enhanced L-parameters. Although these are very much motivated by Bernstein's work on p-adic groups, we will define them (on the Galois side) purely in terms of complex groups.

The main technical tool underlying this is a generalization of the Lusztig-Springer correspondence to disconnected complex reductive groups. The talk is based on joint work with Anne-Marie Aubert and Ahmed Moussaoui.