WENTANG KUO, Queen's University, Kingston, Ontario Principal nilpotent orbits and reducible principal series

Let G be a split reductive p-adic group. In this talk, we will establish an explicit link between principal nilpotent orbits of G and the irreducible constituents of principal series of G. A geometric characterization of certain irreducible constituents is also provided. In addition, we can express the relation in terms of L-group objects.