

Speaker: Alexander Hazeltine

Title: On the Intersection of Local Arthur Packets for Classical Groups I

Abstract: This is the first of a two-part series of talks on local Arthur packets and constitutes joint work with Baiying Liu and Chi-Heng Lo. Recently, Atobe determined the intersection of all non-Archimedean local Arthur packets. Independently, in joint work with Liu and Lo, we arrived at the same results using different methods. Furthermore, we gave 4 applications of our results. In this talk, we discuss the complexities of non-Archimedean local Arthur packets with a focus on their intersections. We review Mœglin's explicit construction of local Arthur packets and Atobe's refinement. Specifically, we provide the necessary background of Atobe's refinement in order to state our results and applications. In the sequel talk, Chi-Heng Lo will discuss our results and applications in more detail.

Speaker: Chi-Heng Lo

Title: On the Intersection of Local Arthur Packets for Classical Groups II

Abstract: This is the second of a two-part series of talks on local Arthur packets and constitutes joint work with Alexander Hazeltine and Baiying Liu. In this talk, we state our main results about intersection of local Arthur packets, and then focus on two of our applications. As the first application, we characterize when a representation is in an L-packet of Arthur type in terms of its construction data. As the second application, we introduce our conjectural definition of "the" local Arthur parameter of a representation of Arthur type.