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Introduction to geometry of local Arthur packets

Arthur packets help describe constituents of square integrable automorphic representations. When Arthur initially established his work, the local meaning was of interest. Adams, Barbasch, and Vogan proposed a geometric characterization of local Arthur packets for real groups, and Vogan's subsequent work established this perspective for p-adic groups. In this talk, we will see this geometric perspective in the language of Cunningham et.al. We will report on current progress and future directions of research in this area.