

Abstract: We discuss two restriction problems in the representation theory of reductive groups over p-adic fields. One is the local Gross-Prasad conjecture concerning the restriction of representations of a unitary group to a smaller unitary group, and the other is local theta correspondence concerning the lifting of representations of a unitary group to another unitary group using branching laws. We prove the Fourier-Jacobi case of the local Gross-Prasad conjecture as well as two conjectures of D.Prasad concerning local theta correspondence, which explicitly describe the restriction problems. This is joint work with Wee Teck Gan.