

Periods of automorphic forms and special values of L-functions

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Abstract: A period of an automorphic form on a reductive group G over a number field is defined by its integral over a subgroup H of G . Such periods are often related to special values of automorphic L-functions. In this talk, we present a conjecture in the case of special orthogonal groups, which can be regarded as a refinement of the global Gross-Prasad conjecture about the restriction of automorphic representations of $SO(n+1)$ to $SO(n)$. This is a joint work with Tamotsu Ikeda.