

Speaker: Yifeng Liu

Title: Refined conjecture for automorphic periods of Bessel type

Abstract: In this talk, I will formulate the refined global Gan-Gross-Prasad conjecture for automorphic periods attached to Bessel models for both orthogonal and unitary groups, extending the work of Ichino and Ikeda where the restricted group is reductive. It also specializes to a conjectural formula about the Fourier-Whittaker coefficients where the restricted group is unipotent. We will look at some special examples where the restricted group is neither reductive nor unipotent, for example, the case for $SO(5) \times SO(2)$. For the unitary case, we will propose a relative trace formula approach attacking the conjecture.