

1069-11-284

luanlei zhao* (zhao@math.wisc.edu), 503 eagle heights apt H, madison, WI 53705. *Integrals of automorphic Green functions.*

Following S. Kudla, J. Bruinier and T. Yang, we compute the integral of an automorphic Green functions coming from vector valued harmonic Maass forms for the dual pair $(O(n), Sp(1))$ over the negative 2-planes with signature $(r,2)$ for $0 \leq r \leq n$, which is of interest in Arakelov geometry. Specially, we generalize their results in different respects. If time permits, we will talk about some examples. (Received January 24, 2011)