

1154-11-719

Olivia Beckwith*, obeck@illinois.edu, and **Gene Kopp**, gene.kopp@bristol.ac.uk. *Polyharmonic Maass forms and ray class zeta functions for real quadratic fields.*

We construct a basis for the vector space of polyharmonic Maass forms for $\Gamma(N)$ with bounded polyharmonic depth, generalizing a result of Lagarias and Rhoades for $N = 1$. We show that twisted traces of geodesic integrals of certain polyharmonic Maass forms are central values of Hecke L-series for real quadratic fields. (Received September 10, 2019)