

DETERMINANTS OF LAPLACIANS ON HILBERT MODULAR SURFACES

YASURO GON

Abstract: We study regularized determinants of Laplacians acting on the space of Hilbert–Maass forms for the Hilbert modular group of a real quadratic field. We show that these determinants are described by Selberg type zeta functions introduced in [5, 6].

2010 Mathematics Subject Classification: 11M36, 11F72, 58J52.

Key words: Hilbert modular surface, Selberg zeta function, regularized determinant.