

abstract

Joint IAS/PU Number Theory Seminar
Topic:

Speaker:

Affiliation:

Date:

Time/Room:

I will describe work with Yingkun Li on some arithmetic properties of the Fourier coefficients of harmonic modular forms of weight one. These are Maass forms of weight one whose eigenvalue under the Laplacian is zero and that are allowed to have polar-type singularities in the cusps. We show that in some dihedral cases they are connected to the Galois representations associated to newforms of weight one. We also find numerical evidence for this in several exotic cases.