

abstract

JOINT IAS/PU NUMBER THEORY SEMINAR

Topic:

Speaker:

Affiliation:

Date:

Time/Room:

The automorphic cohomology of a reductive \mathbb{Q} -group G , defined in terms of the automorphic spectrum of G , captures essential analytic aspects of the arithmetic subgroups of G and their cohomology. We discuss the actual construction of cohomology classes represented by residues or principal values of derivatives of Eisenstein series. We show that non-trivial Eisenstein cohomology classes can only arise if the point of evaluation features a 'half-integral' property. This raises questions concerning the analytic behavior of certain automorphic L-functions at half-integral arguments.