

abstract

Joint IAS/PU Number Theory Seminar
Topic:

Speaker:

Affiliation:

Date:

Time/Room:

To any essentially self-dual, regular algebraic (ie cohomological) automorphic representation of $GL(n)$ over a CM field one knows how to associate a compatible system of l -adic representations. These l -adic representations occur (perhaps slightly twisted) in the cohomology of a Shimura variety. Recently Harris, Lan, Thorne and myself have constructed l -adic representations without the essentially self-dual ' \square hypothesis'. In this case the l -adic representations do not occur in the cohomology of any Shimura variety. Rather we construct them using a congruence argument. In this talk I will describe this theorem and sketch the proof.