

abstract

MEMBERS SEMINAR

Topic:

Speaker:

Affiliation:

Date:

Time/Room:

I'll first summarize my conjecture about the p -adic slopes of modular forms for GL_2 (both classical and overconvergent). This conjecture is based upon some structures in the geometry of the special fibers of elliptic modular curves at p . In an attempt to generalize to GL_n , I'll discuss the analogue of these structures (after accounting for p -torsion) in spaces of modular symbols for GL_2 . And then finally I'll mention similar structures in the cohomology of symmetric power representations of $SL_n(\mathbb{Z})$, and review methods for computing Hecke spectra in this setting (at least for the top cohomology groups) using the topology of the Tits building.