Séminaire de théorie des nombres

Le 21 avril 2008 à 15h30

Λ-adic modular symbols and

several variable p-adic L-functions

over totally real fields

Exposé de Baskar Balasubramanyam

(Ben Gurion University et IHES)

Résumé : We recall Hida's construction of the universal nearly-ordinary Hecke algebra for totally real number fields. The main theorem of Hida's theory allows us to lift a classical modular form f_0 to a homomorphism of this Hecke algebra and by specializing at various integer weights we get a family of cusp forms $f_{(n,v)}$. One can attach in a natural way certain cohomology classes to these cusp forms and we prove a control theorem for these cohomology groups. We then construct a p-adic L-function which interpolates single variable p-adic L-functions attached to $f_{(n,v)}$.