

Séminaire de théorie des nombres

Le 12 mai 2008 à 14h

Nearly ordinary deformations and the splitting question

Exposé d'Eknath Ghate (TIFR, Inde)

Résumé : The local Galois representation attached to an ordinary cusp form of weight 2 or more is reducible. It is expected that this representation is semi-simple exactly when the underlying form has CM. We shall describe some recent specific and general attacks on this problem. In particular we shall speak about some work in progress with Hida, which builds on earlier work with Vatsal.