Séminaire de théorie des nombres

Le 5 avril à 14h

On the local semi-simplicity of ordinary modular Galois representations

Exposé d'Eknath Ghate

Résumé : Let f be a p-ordinary primitive cusp form of weight at least 2. Then the restriction to a decomposition group at p of the two dimensional p-adic Galois representation attached to f is upper-triangular. When f has complex multiplication it is not hard to see that it is even diagonal. In this talk we will provide some evidence which shows that the converse also holds. This is joint work with Vinayak Vatsal.