Séminaire de théorie des nombres

Le 24 novembre 2008 à 14h

On uniqueness of *p*-adic period morphisms

Exposé de Wieslawa Niziol (University of Utah)

Résumé : For algebraic varieties over local fields of mixed characteristic (0, p), de Rham cohomology and *p*-adic geometric étale cohomology with all their structures are related by the *p*-adic period morphisms. We have three general constructions of such morphisms : the syntomic, the "almost étale", and the motivic one. I will briefly review these constructions and then show how the motivic approach implies a uniqueness criterium for the *p*-adic period maps and, in turn, the equality of the maps constructed by the three general methods.