

Séminaire de théorie des nombres

Le 14 mars 2011 à 14h (à Chevaleret)

More pro- p counterexamples for the section conjecture of anabelian geometry

Exposé de Jakob Stix (Universität Heidelberg)

Résumé : Grothendieck's section conjecture in anabelian geometry suggests to use splittings of the fundamental group exact sequence to study rational points. Over number fields, splittings which locally come from rational points are related to adelic points which survive all finite torsor obstructions.

We will discuss in the talk a refinement of Hoshi's counterexamples to a pro- p version of the section conjecture. In particular, we need to understand how badly the analogue of the section conjecture fails over finite fields.