Séminaire de théorie des nombres

Le 7 décembre 2015 à 14h (Jussieu)

Constructing elements of Brauer groups and Tate Shafarevitch groups from knots

Exposé de Ted Chinburg
(University of Pennsylvania)

Résumé : This talk has to do with knots invariants which are elements of the Brauer groups and of the Tate Shafarevitch groups of curves over number fields. Constructing these invariants involves a close analysis of the canonical Azumaya algebra which is defined over an open dense subset of Thurston's canonical curve in the representation variety of the knot group. This is joint work with Alan Reid and Matt Stover.