



PURDUE UNIVERSITY

Department of Mathematics Colloquium

Speaker: Professor Philippe Cassou-Nogues, Université Bordeaux1
Title: "Galois Module Structure in Number Theory and Geometry"
Date: Tuesday, September 8, 2009
Time: 4:30 P.M.
Place: MATH 175

Abstract

After recalling some classical results on the Galois module structure of rings of algebraic integers of number fields, we will explain how, in order to generalize them, we are led to study the Galois module structure of certain torsors associated with the rational points of elliptic curves. Finally, following, Ted Chinburg, we will introduce the notion of equivariant Euler characteristics of coherent sheaves and will give examples where their determination provides, in this geometric context, analogues of the results we started with.

Refreshments will be served in the Math Library Lounge at 4:00 p.m.