

Spring 2012

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Topics in Algebraic Number Theory

Abstract

The course will be a continuation of the Fall 2011 course.
Main topics will include:

Selmer-type groups, their applications to the arithmetic of elliptic curves, with special consideration of elliptic curves, associated to the congruent numbers.

Introduction to the method of Euler Systems for bounding of Selmer groups, with applications to the Birch-Swinnerton-Dyer conjecture for elliptic curves.

There is no particular text book to be used.