



Seminar

K-Theory, Quadratic Forms and Number Theory

Title: Introduction to noncommutative Iwasawa theory

Speaker: Professor Peter Schneider (Universitat Muenster)

Date: Fri 2nd February 2007 at 4:00PM

Location: Mathematical Sciences Seminar Room

Abstract: I will begin by briefly reviewing the K -theoretic foundation of classical Iwasawa theory. Noncommutative Iwasawa theory deals with the behaviour of arithmetic invariants in infinite Galois extension of number fields whose Galois group is a (typically noncommutative) p -adic Lie group G . This leads to a study of the K -theory of the completed group ring of G . I will describe the basic problems which one encounters and will discuss some solutions.