



Seminar

K-Theory, Quadratic Forms and Number Theory

Title: Galois groups, cup products and K-theory

Speaker: Kevin Hutchinson (UCD)

Date: Wed 4th October 2006 at 4:00PM

Location: Mathematical Sciences Seminar Room

Abstract: A much-studied paper of Sharifi and McCallum in 2003 relates the structure of the Galois group of the maximal p -ramified (p prime) extension of a number field to a cup product in cohomology and, via this, to K-theory and Iwasawa theory. We will give a survey of these ideas and will provide a particularly simple K-theoretic interpretation of part of the cup product which extends some results of Sharifi and McCallum and gives information about the Galois groups of certain number fields.

<http://mathsci.ucd.ie/sms/research/seminars/KTQFseminar.html>