# K-Theory, Quadratic Forms and Number Theory Seminar

**Title:**      Cohomological Invariant Theory

**Speaker:**  Professor Wilberd van der Kallen (Universiteit Utrecht)

**Date:**      Wed 22nd October 2008 at 3:00PM

**Location:**  Mathematical Sciences Seminar Room

**Abstract:** The "first fundamental theorem" of invariant theory goes back to the 19th century. Nowadays one says that if a reductive algebraic group acts algebraically on a finitely generated commutative k–algebra, then the ring of invariants $H^0(G, A) is a lso a finitely generate$ $algebra. Here k is the ground field. We have conjectured that more generally for any geometrically reduct$ $Suslin (1997). This summer the conjecture was proved by Antoine Touze, just before his thesis defence..$