K-Theory, Quadratic Forms and Number Theory Seminar

Title: Sums of values represented by a quadratic form

Speaker: Nicolas Grenier–Boley (Universite Paris 13)

Date: Wed 2nd February 2011 at 3:00PM

Location: Mathematical Sciences Seminar Room

Abstract: Let K be a field of characteristic different from 2. To each quadratic space (V, q) over K, we attach a number called the q–level of K which is a possible generalization of the level of K. In this talk, we will give some general results and examples about this number and highlight the case where q is a Pfister form over K by obtaining generalizations of classical results in the algebraic theory of quadratic forms.