



Seminar

## K-Theory, Quadratic Forms and Number Theory

**Title:** Morita theory for sesquilinear forms

**Speaker:** Dr. Anne Cortella (Besancon)

**Date:** Wed 9th January 2008 at 4:00PM

**Location:** Mathematical Sciences Seminar Room

**Abstract:** Let  $A$  be an algebra and  $\sigma$  an anti-automorphism on  $A$  (i.e. such that  $\sigma$  preserves the sum and inverses the order in products). We can then define sesquilinear forms on an  $A$ -module (on the right) as usual. We will see a definition of a Morita equivalence between two algebras with anti-automorphism and prove that this gives an equivalence of categories of sesquilinear forms.