



## Algebra and Number Theory Seminar

**Title:** Generalization of a Theorem of Carlitz

**Speaker:** Dr Omran Ahmadi (Sch. Math. Sci., UCD)

**Date:** Mon 22nd March 2010 at 4:00PM

**Location:** Mathematical Sciences Seminar Room

**Abstract:** We generalize Carlitz' result on the number of self reciprocal monic irreducible polynomials over finite fields by showing that similar explicit formula hold for the number of irreducible polynomials obtained by a fixed quadratic transformation. Our main tools are a combinatorial argument and Hurwitz genus formula.