



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.