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**Scoil na
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Algebra and Number Theory Seminar

Dr Omran Ahmadi (Sch. Math. Sci., UCD)

will speak on

Generalization of a Theorem of Carlitz

Mon 22nd March 2010 at 4:00PM

Location: Mathematical Sciences Seminar Room

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.

This talk is part of the **Algebra and Number Theory** series. For more, see
<https://maths.ucd.ie/seminars>