



## Algebra and Number Theory Seminar

**Title:** Maximum nonlinear functions

**Speaker:** Alexander Pott (University of Magdeburg, Germany)

**Date:** Thu 7th December 2006 at 4:00PM

**Location:** Mathematical Sciences Seminar Room

**Abstract:** There are two notions of how to measure the nonlinearity of functions defined on finite fields. In my talk, I will discuss both approaches, in particular the extremal case of functions which are in some sense as nonlinear as possible.

I will present new results disproving some conjectures and which suggest further research.