

UCD School of Mathematics and Statistics

University College Dublin

Belfield, Dublin 4, Ireland

Tel

Fax

Scoil na Matamaitice agus na Staitisticí UCD

An Coláiste Ollscoile, Baile Átha Cliath Belfield, Baile Átha Cliath 4, Éire

+353 1 716 2580 +353 1 716 1196 Email seminars@maths.ucd.ie Web maths.ucd.ie/seminars

maths.ucd.ie/seminars

Algebra and Number Theory Seminar

Marc Roeder (NUI Galway)

will speak on

Relative difference sets and APN functions

Mon 3rd November 2008 at 4:00PM

Location: Mathematical Sciences Seminar Room

Relative difference sets (RDS) describe finite geometries with large automorphism groups. Difference sets are well studied and there are computational methods for constructing and (sometimes) classifying them. We will present a difference set construction corresponding to almost perfect non-linear (APN) functions and discuss the possibilities of gaining knowledge by translating problems from APN to RDS and back again.

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