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**Scoil na
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Algebra and Number Theory Seminar

Konstantinos Drakakis (University College, Dublin)

will speak on

**A family of polynomials related to the cross-correlation of
Golomb Costas arrays**

Mon 5th October 2009 at 4:00PM

Location: Mathematical Sciences Seminar Room

I will show how the cross-correlation of Golomb Costas arrays leads naturally to the algebraic problem of the determination of the number of roots of a family of polynomials over a finite field, and I will mention several partial results and several further conjectures. I will then focus on a specific polynomial of this family, and study its roots over the field of complex numbers, where I will again mention several partial results and several further conjectures. This is a joint work with Rod Gow and Danny Lynch.

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