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Algebra and Number Theory Seminar

Faruk Gologlu (UCD)

will speak on

New Results on Kloosterman Sums Modulo p^e

Mon 27th September 2010 at 4:00PM

Location: Mathematical Sciences Seminar Room

We give results on p-ary Kloosterman sums modulo powers of the characteristic where p is any prime. Given the difficulty of finding zeroes (or specific values) of Kloosterman sums using current techniques, giving divisibility results is the standard way of providing necessary conditions. When p = 2,3 the results are on the usual Kloosterman sums and when p_i 3 we give a result on the minimal polynomial of the Kloosterman sum. These results are a combination of a number of co-works (all) with Gary McGuire and Richard Moloney and (some with) Petr Lisonek.

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