

UCD School of Mathematics and Statistics

University College Dublin Belfield, Dublin 4, Ireland

Tel +353 1 716 2580 Fax +353 1 716 1196

Scoil na Matamaitice agus na Staitisticí UCD

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

Email seminars@maths.ucd.ie
Web maths.ucd.ie/seminars

K-Theory, Quadratic Forms and Number Theory Seminar

Professor Jeremy Lovejoy (Paris 7)

will speak on

Congruences for smallest parts functions

Thu 13th October 2011 at 4:00PM

Location: Mathematical Sciences Seminar Room (Aq 1.01)

Let spt(n) denote the number of smallest parts in the partitions of n. The generating function for spt(n), after the addition of some quasimodular forms, is a weight 3/2 mock modular form. We will discuss how this fact can be used to give explicit congruences for spt(n) modulo powers of arbitrary primes. We will compare these congruences with those for the ordinary partition function p(n).

This talk is part of the **K-Theory, Quadratic Forms and Number Theory** series. For more, see https://maths.ucd.ie/seminars