K-Theory, Quadratic Forms and Number Theory Seminar

Title: Supercongruences for Apery-like numbers

Speaker: Dr. Robert Osburn (UCD)

Date: Thu 27th October 2011 at 4:00PM

Location: Mathematical Sciences Seminar Room (Ag 1.01)

Abstract: It is known that the numbers which occur in Apery's proof of the irrationality of the zeta function evaluated at 2 have many interesting congruence properties while the associated generating function satisfies a second order differential equation. In this talk, we discuss a proof of supercongruences for a generalization of numbers which arise in Beukers' and Zagier's study of integral solutions of Apery-like differential equations. This is joint work with Brundaban Sahu (NISER, India).