# K-Theory, Quadratic Forms and Number Theory Seminar

## Dr. Amanda Folsom (University of Wisconsin)

will speak on

## Duality involving the mock theta function f(q) and analytic properties of Kloosterman–Selberg zeta functions

## Wed 20th February 2008 at 4:00PM

### Location: Mathematical Sciences Seminar Room

We show that the coefficients of Ramanujan's mock theta function f(q) are the first nontrivial coefficients of a canonical sequence of modular forms. This fact follows from a duality which equates coefficients of the holomorphic projections of certain weight 1/2 Maass forms with coefficients of certain weight 3/2 modular forms. This work depends on the theory of Poincare series, and a modification of an argument of Goldfeld and Sarnak on Kloosterman–Selberg zeta functions.

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