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**Scoil na
Matamaitice agus na Staitisticí UCD**

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K-Theory, Quadratic Forms and Number Theory Seminar

Robert Osburn (UCD)

will speak on

Automorphic properties of combinatorial generating functions

Wed 6th April 2011 at 3:00PM

Location: Mathematical Sciences Seminar Room

An intriguing and almost completely unsolved problem is to understand the overlap between classes of q -hypergeometric series and automorphic forms. For example, we now know that each of Ramanujan's mock theta functions is the holomorphic part of a weak Maass form. In this talk, we provide a framework which generalizes recent work of Andrews and discuss automorphic properties of the associated q -hypergeometric series. This is joint work with Kathrin Bringmann and Jeremy Lovejoy.

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