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## K-Theory, Quadratic Forms and Number Theory Seminar

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**Dr. Abhishek Saha (ETH Zurich)**

will speak on

**Determination of modular forms by Fourier coefficients**

Thu 22nd March 2012 at 4:00PM

Location: Mathematical Sciences Seminar Room (Ag 1.01)

It is an interesting question when a natural subset of the Fourier coefficients are sufficient to uniquely determine a modular form. I will describe recent work that investigates this question for classical holomorphic cusp forms of half-integral weight, and Siegel cusp forms of genus 2. These two apparently very different scenarios turn out to be closely related, and have important consequences for the L-functions and Bessel models related to Siegel cusp forms. In particular, an application to the case of Yoshida lifts leads to a simultaneous non-vanishing theorem for two Rankin-Selberg L-functions. Part of this is joint work with Ralf Schmidt.

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