



**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

Analysis Seminar

Thomas Jordan (University of Bristol)

will speak on

Multifractal analysis for self-affine iterated function systems

Tue 5th March 2019 at 4:00PM

Location: Seminar Room SCN 1.25

I will start by describing a simple example (due to Besicovitch) of multifractal analysis which consider the frequency of digits in binary expansions. I'll then describe how this problem can be generalised to self-affine sets. In this setting the talk will describe how the problem relates to the study of random matrix products and describe some progress towards solving the problem which is joint work with Balazs Barany, Antti Kaenmaki and Micha lRams.

This talk is part of the **Analysis** series. For more, see
<https://maths.ucd.ie/seminars>