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**Scoil na
Matamaitice agus na Staitisticí UCD**

An Coláiste Ollscoile, Baile Átha Cliath
Belfield, Baile Átha Cliath 4, Éire

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Analysis Seminar

P. Massopust (TU M"unchen)

will speak on

Local Iterated Function Systems (IFSs) and Self-Referential Functions

Tue 31st March 2015 at 3:00PM

Location:

We present the concept of local IFS and highlight some of their properties. As a special but nonetheless very important subclass of local IFSs we consider those whose attractors are graphs of functions. We associate with this subclass of local IFSs a function-valued operator and derive conditions under which this operator maps certain classes of function spaces into themselves. Finally, we introduce fractels (= fractal elements) for both IFSs and functions, and show that fractels give a more intrinsic characterization of self-referentiability.

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