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–referentiabiity.

This talk is part of the **Analysis** series. For more, see

https://maths.ucd.ie/seminars