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Scoil na
Matamaitice agus na Staitisticí UCD

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Analysis Seminar

S. Morley (Nottingham)

will speak on

F-differentiable functions and F-quasianalyticity

Tue 23rd February 2016 at 4:00PM

Location:

Let X be a perfect, compact subset of the complex plane. We usually study those continuous, complex-valued functions f on X such that f has a continuous derivative at all points of X . Unfortunately, the collection of all such functions on X does not have desirable properties as a normed algebra of functions. In 2003, Bland and Feinstein introduced larger collections of continuous functions on X which have much more desirable properties as normed algebras. They studied those continuous functions on X for which there is an associated continuous function on X which 'integrates correctly' along each path in a given collection F of rectifiable paths in X . We call these functions F -differentiable functions and they have similar properties to the continuous differentiable functions on X . In this talk, we discuss the algebras of F -differentiable functions, their properties, and a notion of quasianalyticity for these algebras.

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