



Analysis Seminar

Title: Distributionally Chaotic Functions

Speaker: Clifford Gilmore (UCC)

Date: Tue 1st October 2019 at 3:00PM

Location: Seminar Room SCN 1.25

Abstract: Distributional Chaos has been actively investigated in the past decade and many natural continuous linear operators are distributionally chaotic. For instance the differentiation operator on the space of entire functions and the partial differentiation operators acting on the space of harmonic functions on \mathbb{R}^N , where $N \geq 2$.

The order of growth of distributionally chaotic entire functions was first considered by Bernal and Bonilla (2016). In this talk we examine recent results on the permissible growth rates of entire and harmonic functions that are distributionally chaotic with respect to differentiation operators.

This is joint work with A. Peris and F. Martínez-Giménez (Universitat Politècnica de València).