



## Analysis Seminar

**Title:** Positive solutions for quasilinear elliptic inequalities with nonlocal terms

**Speaker:** M. Ghergu

**Date:** Tue 28th April 2020 at 3:00PM

**Location:** (See abstract)

**Abstract:** We study the existence and nonexistence of positive solutions for a class of quasilinear elliptic inequalities involving nonlocal terms. The general class of differential operators considered contains the case of  $m$ -Laplace operator or  $m$ -mean curvature operator as a particular case. We obtain optimal conditions on all parameters for which positive solutions exist. This talk is based on a joint work with Paschalis Karageorgis (Trinity College Dublin) and Gurpreet Singh (Trinity College Dublin).

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