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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