



## Analysis Seminar

**Title:** Non-homogeneous fourth order elliptic inequalities with convolution terms

**Speaker:** Zhe Yu

**Date:** Tue 5th December 2023 at 3:00PM

**Location:** E0.32 (beside Pi restaurant)

**Abstract:** We study two classes of elliptic inequalities in the whole space involving fourth order differential operators of Laplace and bi-Laplace type with nonlocal convolution terms. We discuss the existence and nonexistence of classical non-negative solutions in terms of various parameters and exponents. The approach relies on various estimates combined with the weak Harnack inequality.

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