

WEBINAR

Grupo de Análise Funcional e Aplicações Functional Analysis and Applications Group

The infinite normal form reduction for nonlinear dispersive equations

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Abstract

In this talk, I will present a recent method that allows one to derive a priori bounds on solutions to any given dispersive equation. This method, despite its algebraic complexity, is able to encapsulate the dispersive information and reduces the analysis to some very simple estimates. This is in sharp contrast with the usual combinations of Strichartz, maximal, Kato smoothing and Bourgain space estimates. I'll use this powerful method to prove unconditional uniqueness and nonlinear smoothing and discuss future applications.

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