

SEMINARIO DE ANÁLISIS Y APLICACIONES

Viernes, 10 de diciembre de 2021

11:30 h., Módulo 17 - Aula 520 (Depto. Matemáticas UAM),

y además ONLINE - URL: <https://us06web.zoom.us/j/87686140305>

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Non-homogeneous
Gagliardo-Nirenberg inequalities and a
biharmonic NLS

ABSTRACT

The aim of this talk is twofold. On one hand, we investigate some non-homogeneous Gagliardo-Nirenberg-type inequalities. On the other hand, using the previously discussed inequalities, we analyse the standing waves for a fourth-order Schrödinger equation with mixed dispersion that minimize the associated energy when the L^2 -norm (the *mass*) is kept fixed. Special attention will be paid to the method used to prove the non-homogeneous Gagliardo-Nirenberg-type inequalities. The talk is based on a joint work with Louis Jeanjean (Besançon, France), Rainer Mandel (Karlsruhe, Germany) and Mihai Mariş (Toulouse, France).

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