

SEMINARIO DE ANÁLISIS Y APLICACIONES

Martes, 16 de septiembre de 2014

12:00 h., Módulo 17 (antiguo C-XV) - Aula 520 (Depto. Matemáticas UAM)

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Diffeomorphic approximation of planar Sobolev homeomorphisms

Resumen:

Let $\Omega \subset \mathbb{R}^2$ be a domain and let $f : \Omega \rightarrow \mathbb{R}^2$ be a homeomorphism in the Sobolev space $W^{1,1}$.

We show that we can find a sequence of diffeomorphisms that converge to f in the Sobolev norm.

This is a joint result with Aldo Pratelli.