

Faculdade de Ciências da Universidade de Lisboa
cmafcio@fc.ul.pt Tel. (+351) 21 750 00 27

SEMINÁRIO DE ANÁLISE E EQUAÇÕES DIFERENCIAIS

Dia 20 de Outubro (sexta-feira), às 13h30, sala 6.2.33

Fractionary powers of Laplacians in Fluid Mechanics

Antonio Córdoba

(Universidad Autónoma de Madrid)

Abstract: Fractional powers of Laplacians play an important role in the evolution of fluid interphases and atmospheric fronts. There are several useful, and to some extend surprising, new pointwise inequalities satisfied by those operators which help us to understand the nature of several models in Fluid Mechanics, such as SQG, Hele-Shaw cells or Muskat's problem.

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