Universidad Carlos III de Madrid
Department of Mathematics

COLLOQUIA

DÍA ICMAT: Monday, May 14, 2012.

Manuel de León (ICMAT): Introduction

Diego Córdoba (ICMAT)

Finite time singularities for the incompressible Euler equations

Abstract:

In this talk we will address the issue of whether incompressible Euler or Navier-Stokes equations can develop a finite time singularity from smooth initial data. We will give a brief review of the main results in the subject. Finally, I will present the existence of smooth initial data for the 2D free boundary incompressible Euler equation (also known for some particular scenarios as the water wave problem), for which the smoothness of the interface breaks down in finite time.

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Default Data

Time 10:45 to 11:45
Location Room 2.2.D08
Building Sabatini (2nd Floor)

Address

Avda. de la Universidad 30
28911, Leganés, Madrid

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