Per il Dottorato in Scienze Matematiche dell'Università degli Studi di Milano

il Prof. **Eduard Feireisl**

dell'Institute of Mathematics of the Academy of Sciences of the Czech Republic

terrà un corso di dottorato su

Mathematical theory of fluids in motion

Abstract

The goal of the course is to present the recent development of the mathematical fluid dynamics in the framework of classical fluid mechanics phenomenological models. In particular, we discuss the Navier-Stokes (viscous) and the Euler (inviscid) systems. The theory is developed from fundamental physical principles, the necessary mathematical tools introduced at the moment when needed. In particular, we discuss various concepts of solutions and their relevance in applications. Particular interest is devoted to well-posedness of the initial-value problems and their approximations including possibly certain numerical schemes.

Prerequisites

The interested audience should be familiar with the basic concepts of the real and functional analysis, in particular differential and integral calculus, generalized derivatives, function spaces and various topologies on them.

Calendario

7, 10, 13, 14, 27, 28 marzo 2017
3, 7, 10, 21, 26, 28 aprile 2017
Orario: **dalle 10.00 alle 12.00**

Luogo

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Contatti

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