



Dipartimento di Scienze e Tecnologie

Dottorato di Ricerca in Scienze e Tecnologie per l'Ambiente e la Salute

Seminari ed incontri del DST

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Université de Rouen (France)

Partial Differential Equations in Science and Engineering

VENERDÌ 7 DICEMBRE 2018 ORE 14:30

**Aula B1, Palazzo Bosco Lucarelli
Benevento**

The study of partial differential equations (PDEs) is at the crossroads of mathematical analysis, measure theory, topology, differential geometry, scientific computing, and many other branches of mathematics. Modeling physical phenomena, partial differential equations are fascinating topics because of their increasing presence in treating real physical processes. In recent years, PDEs have become essential tools when modeling in fields such as materials science, fluid mechanics, quantum mechanics, mathematical finance, biology and biomedicine, and environmental sciences. The aim of this seminar is to introduce this important subject to a large audience of students showing the main mathematical difficulties, as well as an overview of related models.

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