DOCTORAL PROGRAMME IN MATHEMATICAL SCIENCES

In the framework of the activities of the PhD programme in Mathematical Sciences

Prof. **Paul Arne Østvær**

University of Milan

will offer a PhD course on

Cohomology theories

Abstract

Cohomology theories is a powerful idea in many areas of pure mathematics. Classical examples include the Eilenberg-Steenrod axioms for topological spaces and Weil cohomology theories for algebraic varieties. With homotopical methods, one can define a motivic homotopy theory for schemes. Examples of cohomology theories in this setting include algebraic cobordism, algebraic K-theory, and motivic cohomology. This course will give an introduction to these constructions

Scheduling

The course will be held at the Department of Mathematics, Via C. Saldini n.50 – Milano

from January 17 to February 4, 2022

from 10:00 to 13:00

with the following scheduling:

17, **18**, **21**, **24**, **25**, **28**, **31** January
1, 4 February

Room: **Aula Dottorato**, 1st floor