

# Percolation

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**Timetable:** 12 hrs, first lecture on April 5, 2016, 13:00 (dates already fixed, see the calendar), Torre Archimede, Room 2BC/30.

**Course requirements:** Standard knowledge of Probability and measure theory.

**Examination and grading:** Seminar on a subject assigned by the Instructor.

**SSD:** MAT/06

**Aim:** Percolation is one of the macroscopic phenomena that can have been extensively studied in rigorous Statistical Physics. This course presents the basic mathematical theory of percolation.

**Course contents:**

This is an introductory course on the percolation model on the cubic lattice. The percolation model is the simplest model presenting a phenomenon of phase transition. The basic tools to study percolation and the fundamental results will be presented.