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

## Dr. **Riccardo Tione**

Max Planck Institute for Mathematics in the Sciences, Lipsia

will offer a PhD course on

# Differential inclusions and convex integration

## Abstract

The aim of this course is to overview classical and recent results about differential inclusions. After introducing some general objects and notions, such as Young Measures and elliptic differential inclusions, the course will focus on methods for constructing solutions via convex integration. A variety of examples will be considered, such as the eikonal equation, critical points of polyconvex functionals and very weak solutions to the p-Laplace equation.

## Scheduling

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

**From 5 to 26 Marchr 2024**

with the following scheduling:

2 pm – 4 pm, Tuesday 05 March 2024
10.30am – 12.30 pm, Thursday 07 March 2024
2 pm – 4 pm, Tuesday 12 March 2024
10.30am – 12.30 pm, Thursday 14 March 2024
2 pm – 4 pm, Tuesday 19 March 2024
10.30am – 12.30 pm, Thursday 21 March 2024
2 pm – 5 pm, Tuesday 26 March 2024

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