

# Pre-SUSY school 2024: School on Supersymmetry and Unification of Fundamental forces



**Monday, June 3, 2024 - Friday, June 7, 2024**

**IFT (Madrid, Spain)**

## Scientific Program

The school covers specialized topics of particle physics, cosmology, mathematical physics and programming skills related to supersymmetry.

Details of the lectures and additional material can be found below.

## **Introduction to SUSY**

Werner Porod (Wuerzburg U.)

## **SUSY at hadron colliders**

Sabine Kraml (LPSC, Grenoble)

## **Higgs physics at hadron colliders**

Milada Margarethe Muehleitner (KIT)

## **Physics at future lepton colliders**

Gudrid Moortgat-Pick (U. Hamburg)

## **Introduction to Cosmology**

Jose Juan Blanco Pillado ( Universidad del País Vasco/Euskal Herriko Unibertsitatea)

## **Dark Matter theory**

David Cerdeño (IFT)

## **Dark Matter experiment**

Marisa Sarsa (Universidad de Zaragoza)

## **Flavor physics**

Ana M. Teixeira (LPC, Clermont-Ferrand)