

12th Iberian Gravitational Waves Meeting



Monday 6 June 2022 - Wednesday 8 June 2022

University of Minho, Campus Gualtar, Pedagogical Complex II (CP2), Room B1

Scientific Programme

General Topics of the Scientific Programme

The program of the event, starts with an overview of the current on-going Gravitational Waves (GW) experiments and future prospects, followed by sessions dedicated to GW Theory, Fundamental Physics, Cosmology, Modelling, Analysis of Data and its interpretation and Machine Learning algorithms.

The program in every session, starts with talks from invited speakers, followed by shorter contributed talks from registered participants.

GW Theory and Fundamental Physics

In this session the current theoretical status of GW theory and related fundamental physics, is discussed.

Cosmological Sources of GW

In this session an overview of the different cosmological sources of GW are discussed, together with their main properties (Pulsars, Neutron Stars, Black Holes, Core Collapse Supernovas, Boson Stars, etc.)

Modelling and Machine Learning Algorithms

The modelling used in the detection of GW is discussed in this session from the different approximants used down to the experimental detection of GW using Machine Learning methods are presented.