

## Particle Astrophysics Overview

*Wednesday 4 May 2022 14:00 (1 hour)*

Particle astrophysics lies at the rich interface between astrophysics, cosmology and fundamental physics. It aims to find answers for the most fundamental questions about our universe, its origin and evolution, using the complementary information provided by the cosmic messengers that arrive to us: cosmic rays, neutrinos, photons and gravitational waves.

This lecture aims at telling the story of the origins of astroparticle physics, the current puzzles that need to be solved, while presenting the different cosmic messengers from a very experimental perspective.

**Presenter:** INACIO, Ana Sofia (Laboratório de Instrumentação e Física Experimental de Particul)