

Effective Field Theories Across The Universe

Monday 30 September 2024 - Friday 04 October 2024

Instituto de Fisica

Conference Scientific Programme

Effective Field Theories (EFTs) provide powerful frameworks for understanding the relevant degrees of freedom of physical systems across different scales, from the subatomic realm of particle physics to the vast expanses of the cosmos. This interdisciplinary workshop aims to explore the applications and implications of EFTs in cosmology, general relativity and particle physics, bringing together experts, researchers, and students to delve into the latest advancements and theoretical developments in these fields.

EFT for Large Scale Structure

Mikhail Ivanov (MIT)

Cosmological Collider Program

Soubhik Kumar (New York)

EFTs for Gravitational Waves

Alexander Edison (Northwestern)

Standard Model EFT

Laura Reina (FSU)

Soft Collinear Effective Field Theory

Sebastian Jaskiewicz (Bern)