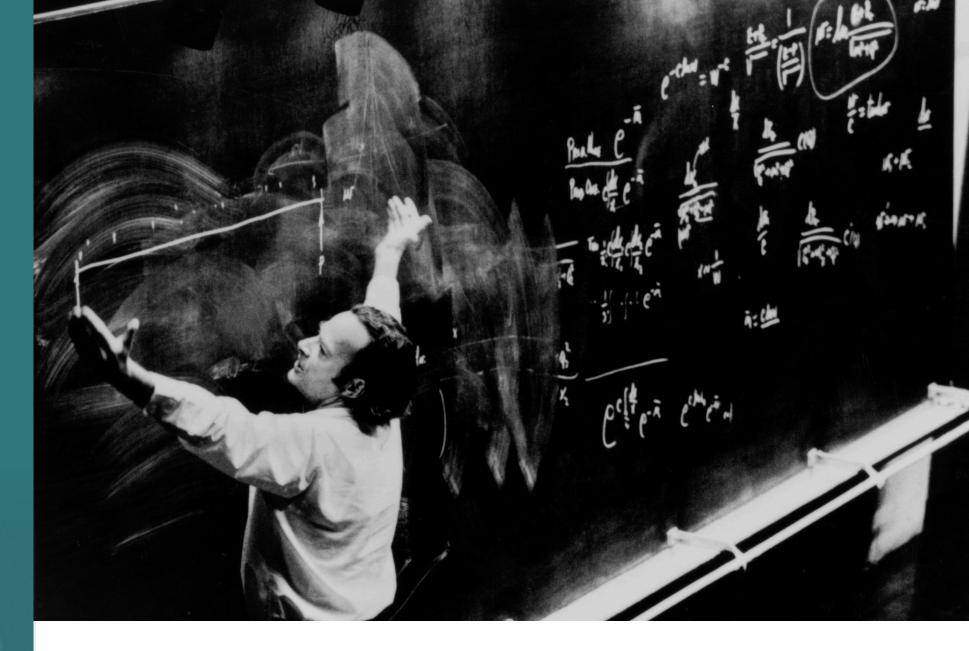


## G G

## S C H O L



9-27 JANUARY 2023

## GGI LECTURES ON THE THEORY OF FUNDAMENTAL INTERACTIONS

Galileo Galilei Institute for Theoretical Physics - Firenze

**Organizers** 

FRANCESCO D'ERAMO (Padova U. & INFN)

ROBERTO FRANCESCHINI

(Roma Tre U. & INFN)

GIULIANO PANICO

DIEGO REDIGOLO (INFN Firenze & CERN)

(Firenze U. & INFN)

GIULIA RICCIARDI (Napoli Federico II U. & INFN)

> FRANCESCO RIVA (Geneva U.)

**Lecturers and Topics** 

TIMOTHY COHEN (University of Oregon)
Effective Field Theories

**EDWARD KOLB (University of Chicago)** *Gravitational Particle Production* 

LUCA LISTA (University Napoli Federico II & INFN Napoli)
Statistical Methods for Data Analysis in Particle Physics

MARIANNA SAFRONOVA (University of Delaware)
Tabletop Experiments

LUCA SILVESTRINI (INFN Roma)
Precision Electroweak Physics

FRANCESCO VISSANI (INFN Laboratori Gran Sasso) Neutrino Physics

The lectures are primarily addressed to Ph.D. students in High Energy Particle and Astroparticle Physics. The aim of the school is to give a pedagogical introduction to the basic concepts and tools needed for research, covering the foundations of the subject at a deep and advanced level.





