



The future of high-energy physics with colliders

Date: February 15, 2023 (Wednesday)

Time: 4:00 p.m.

Zoom Online Lecture: <https://bit.ly/3JHhf6X>

Meeting ID: 910 1760 9238

Password: 2859



Dr. Michelangelo MANGANO
CERN

Abstract:

Particle physics is engaged in a worldwide effort to deepen our understanding of key issues, from the origin of dark matter and neutrino masses, to the dynamics of electroweak symmetry breaking and of non-perturbative strong interactions. A wide landscape of facilities and experiments, in the laboratory, in the sky and underground, in addition to theoretical work, are mobilized in these efforts. In this landscape, collider experiments play a special role, and, with the current success of the LHC, are consolidating their unique potential to continue driving the future progress.

Biography:

Dr. Michelangelo Mangano is a senior theoretical physicist at CERN, the European Centre for Particle Physics. He obtained his PhD from Scuola Normale Superiore (Pisa, Italy), with work on the phenomenology of Superstring theories. He held research positions in the theoretical physics Departments of Princeton University, Fermi National Accelerator Laboratory (Batavia, IL), and Istituto Nazionale di Fisica Nucleare (Pisa), before joining CERN in 1995. He is co-author of over 500 scientific publications, both in theoretical and in experimental particle physics. His main area of expertise is the dynamics of high-energy particle collisions, and their use for the understanding of elementary particles and for the search and study of the fundamental interactions. As a participant in the CDF experiment at the Fermilab's Tevatron accelerator, he was a member of the team that discovered the top quark in 1994. He is constantly engaged in outreach activities, and in 1998 created CERN's High School Teachers' programme, which through the years hosted and trained thousands of teachers from all over the world. He has been visiting scholar or lecturer in over 20 Universities and laboratories worldwide, and a member of the scientific or organizing committee of over 100 international conferences and workshops, as well as member of the review committees for several Institutions and Laboratories, and of the Editorial board of various international scientific journals.

Anyone interested is welcome to attend!

Phone: 28592360 Fax: 25599152