

The Future of High-Energy Physics with Colliders

Dr. Michelangelo Mangano

Department of Theoretical Physics, CERN

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.