

Higgs and Electroweak symmetry breaking at the FCC-hh

Saturday 7 July 2018 17:45 (15 minutes)

The future circular hadron-hadron collider FCC-hh is expected to produce collisions at the unrivaled center of mass energy of $\sqrt{s} = 100$ TeV and to deliver an integrated luminosity of few tens of ab^{-1} . As a result, billions of Higgs bosons will be produced. Having at disposal such humongous samples opens a wide range of possibilities in the realm of precision Higgs measurements. The Top Yukawa and the Higgs self-coupling can be potentially measured respectively to percent level precision. In addition final states involving Higgs bosons can be studied in highly boosted kinematical regimes where the impact of systematic uncertainties can be reduced. Large statistics also offer the possibility of studying rare decays, in particular the Higgs coupling to light quarks.

Author: Dr SELVAGGI, Michele (CERN)

Presenter: Dr SELVAGGI, Michele (CERN)

Session Classification: Higgs Physics

Track Classification: Higgs Physics