

1st Mediterranean Conference on Higgs Physics



Monday 23 September 2019 - Friday 27 September 2019

Conseil regional Tanger-Tétouan-AlHoceima

Scientific Programme

In July 2012, the ATLAS and CMS experiments at the Large Hadron Collider (LHC-CERN) reported the discovery of a new scalar boson, with 7 and 8 TeV center of mass energy, whose properties are comparable to those of the Standard Model Higgs boson.

The Higgs boson discovery acknowledged by the 2013 Nobel Prize in physics is a major success for the experiments at LHC. This Nobel Prize was awarded jointly to François Englert and Peter W. Higgs.

This discovery was consolidated by 13 TeV run and several Higgs measurement was scrutinized to an unprecedented precision and new measurements was performed. With the future LHC run with High luminosity, we expect improvement of all the aforementioned measurements and perform new ones. Another task of the future LHC run would be the discovery of the long-awaited new physics beyond Standard Model(SM) that should show up at the TeV scale.

The topic of the conference is Higgs physics and related topics both from theoretical and experimental point of view. The conference aims also to discuss: dark matter, flavor physics and neutrino masses models, B-physics and CP violation, as well as astrophysics and cosmology.