Abstract

New results have been pouring in from the LHC during the last two years. Searches for new physics have produced many null results, leading to new interesting limits, while a new particle at 125GeV has been discovered, compatible with the Standard Model Higgs boson. These conclusions are reshaping our knowledge of Beyond the Standard Model Physics at the TeV scale. In this talk I will present past and current work on the implications of ATLAS and CMS results on new physics models, such as supersymmetry and weakly interacting (WIMP) Dark Matter models. I will also discuss how the task of comparing of theoretical models with experimental searches can be simplified in our current data rich era.