

Higgs found. What next ?

Fernando Ferroni

INFN – Università “La Sapienza”

The Large Hadron Collider has completed its first cycle of measurement leaving us with a spectacular gift: the discovery of the Higgs boson. And now what ? What is the impact of such a fundamental achievement on the HEP field ? What shall we go after now in priority ? The almost incredible success of the Standard Model poses delicate questions. There is however a contradiction between the 4% of Universe that we know even too well with respect to the lack of understanding of the remaining vast majority. Even amongst the particles we play with daily there are unsolved questions, neutrinos being the top of the iceberg. I will try to point to the main lines of research for the field in the near future. While contributing to this global effort we should also try to transfer these technologies to improve scientific infrastructures in our country. I will briefly present a project that INFN would share with other scientific communities (IRIDE).