



UNIVERSITA' DEGLI STUDI DI PAVIA

DOTTORATO DI RICERCA IN FISICA

COLLOQUIA 2015-2016

Giovedì 5 Maggio 2016

Aula 102 "L. Giulotto", ore 16.00

Dipartimento di Fisica, via Bassi 6, Pavia

High-energy physics with particle colliders: the present and the future

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Abstract: The discovery of the 125 GeV Higgs boson sets a new era in high-energy physics. The main measurements from Large Hadron Collider (LHC) during Run-1 data will be presented. Particular emphasis will be given to the understanding of the properties of this new object. The LHC, with its luminosity upgrade HL-LHC, represents an unique opportunity to study with high accuracy the physics of the newly discovered particle. Deviation from Standard Model predictions may reveal effects from New Physics, providing an important, complementary approach to direct searches. The prospects for LHC Run-2 and for HL-LHC, in the Higgs sector, will be outlined and discussed. Finally, an overview of Higgs physics potential accessible with new accelerator facilities, proposed for the post-LHC era, will be given.

Seguirà dibattito

Tutti gli interessati sono cordialmente invitati a partecipare

