



Physics Department seminar
DIPARTIMENTO DI FISICA, VIA CELORIA 16, MILANO

Aula A in presence and streaming

<https://fisica-unimi.zoom.us/j/94612684296?pwd=UzZjeDEzZjJ2dk9DMUk3VDM1SHFtdz09>

17 Giugno 2022, 14:30 – 16:00

LUCIO ROSSI

(Università di Milano and INFN)

MARCO DELMASTRO

(Laboratoire d'Annecy De Physique Des Particules, FR)

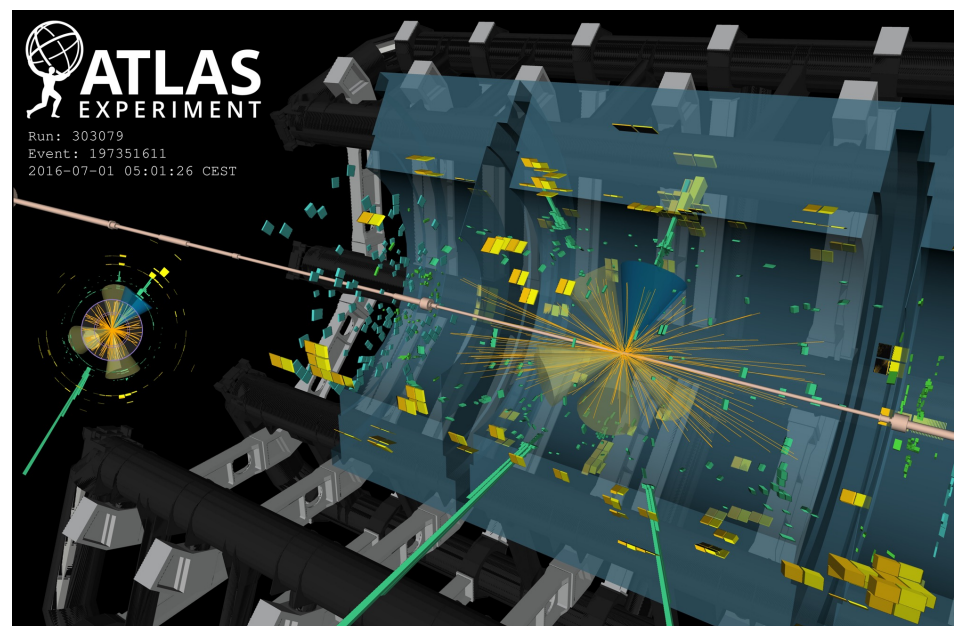
**TEN YEARS OF HIGGS BOSON:
from the discovery to the High Luminosity LHC**

This year marks the tenth anniversary of the discovery of the Higgs boson, announced on 4 July 2012 by the ATLAS and CMS collaborations at CERN in Geneva. The announcement of the discovery ten years ago, although widely awaited by the international scientific community, represented a real turning point in elementary particles physics, and more generally in the understanding of the fundamental mechanisms that govern our universe. How did this discovery come about and why was it so important? Why is the Higgs boson not simply 'another particle', but represents something much more fundamental? What have we learned about the Higgs boson in ten years and what remains to be done?

As part of the celebrations for the tenth anniversary of the discovery we will discuss these items with prof. Lucio Rossi of the University of Milan, responsible for the realization of the LHC magnets and then head of the High-Luminosity LHC project, and with prof. Marco Delmastro of the Laboratoire d'Annecy De Physique Des Particules, currently responsible for the Higgs Boson measurements for the ATLAS experiment.

The two speakers will address all these questions with a pedagogical approach, trying to highlight the complexity and importance of the accomplished result.

Physics undergraduate students are especially welcome!



Students are cordially invited – Contact silvia.leoni@mi.infn.it