



Tsinghua University

Department of physics

Physics Colloquium 2019

Autumn

CMS: status, results and perspectives

Abstract

The CMS collaboration at CERN has already collected a large amount of data from the high-energy proton-proton collisions at the LHC accelerator and published a large amount of papers, including the observation of the Higgs boson. But much more is expected from the future. Prof. Roberto Carlin will describe the experiment and some recent results, and then describe the plans for the short and long term future, in particular focusing on the large scale detector upgrade planned to match the HL-LHC upgrade, and the many technical challenges that have to be addressed.

Speaker

Roberto Carlin (CMS Spokesperson 2018–2020) studied Physics at the University of Padova, Italy. In 1989 he received his PhD in physics with the experiments PS170 at CERN and Fenice at Frascati (Italy). In 1986 he had started contributing to the ZEUS experiment at the electron-proton collider HERA at DESY (Hamburg, Germany) working on the development of the barrel-rare muon detector, later becoming project manager of the detector. Subsequently, he became trigger coordinator of the experiment, co-project manager for the construction of the new silicon vertex detector and finally deputy spokesperson of ZEUS from 2003 to 2005. Roberto then joined the CMS group of Padova, to work on the installation and commissioning of the Drift Tube muon detector and later to coordinate its initial running as deputy project manager. From 2012 to 2015 he was the trigger coordinator, and from September 2016 to August 2018 the deputy spokesperson of CMS. Roberto is currently a full professor in the Department of Physics and Astronomy of the University of Padova.



(Prof. Roberto Carlin)



2019-09-19 16:00

Zheng Yu-tong Lecture Hall, New Science Building

理科楼郑裕彤大讲堂

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