



**UNIVERSITÉ
DE GENÈVE**

FACULTÉ DES SCIENCES
Département de physique
nucléaire et corpusculaire

SÉMINAIRE DE PHYSIQUE CORPUSCULAIRE

SUJET: ATLAS and CMS Higgs coupling combination

PAR: Dr Elisabetta PIANORI
University of Warwick

DATE: Mercredi 4 mai 2016, 11h15

LIEU: Science III, Auditoire 1S081
Boulevard d'Yvoy, 1211 Genève 4

RÉSUMÉ:

I will present the first combined ATLAS+CMS measurement of the Higgs boson production and decay rate based on the 5/fb of 7 TeV and 20/fb of 8 TeV data. Constraints on the Higgs boson's couplings to other SM particles are presented as well. This is the most precise and comprehensive experimental results to date. I will also highlight how these measurements constrain the existence of new physics, and discuss the prospects for Higgs boson measurements and their interpretations in Run2.

INFORMATION : <http://dpnc.unige.ch/seminaire/annonce.html>

ORGANISATEURS: Sergio.Gonzalez@unige.ch & Domenico.Dellavolpe@unige.ch