



**UNIVERSITÉ
DE GENÈVE**

FACULTÉ DES SCIENCES
Département de physique
nucléaire et corpusculaire

SÉMINAIRE DE PHYSIQUE CORPUSCULAIRE

SUJET: **The Physics Program of the High Luminosity LHC**

PAR: **Dr Brian PETERSEN**
CERN

DATE: Mercredi 26 avril 2017, 11h15

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

RÉSUMÉ:

The LHC has successfully delivered more than 50 fb⁻¹ of proton-proton collisions leading to the discovery of the Higgs Boson, extensive limits on beyond Standard Model physics models and a broad set of precision measurements. Major upgrades of both the LHC accelerator complex and the experimental detectors are planned over the next ten years. These will increase the recorded luminosity by almost two orders of magnitude. The seminar will present the physics case for the high luminosity LHC upgrade, the planned experimental upgrades of the ATLAS and CMS experiments and the physics reach which can be achieved after these upgrades.

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

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