



**UNIVERSITÉ
DE GENÈVE**

FACULTÉ DES SCIENCES
Département de physique
nucléaire et corpusculaire

SÉMINAIRE DE PHYSIQUE CORPUSCULAIRE

SUJET: Elusive & exclusive – Highlights from recent SUSY searches with ATLAS

PAR: Dr Moritz BACKES
University of Oxford - UK

DATE: Mercredi 26 octobre 2016, 11h15

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

RÉSUMÉ:

Searches for Supersymmetry at the LHC have literally become an exclusive affair. Strong bounds from the Run-1 data-taking campaign at 7-8 TeV centre-of-mass energy have raised significant doubts about the existence of weak-scale Supersymmetry. With the beginning of the Run-2 data-taking campaign at 13 TeV expectations are high to finally find traces of this elusive but well-motivated theory for physics beyond the Standard Model. In this seminar the latest highlights of Supersymmetry searches with the ATLAS experiment in 13 TeV proton-proton collision data will be discussed. A selection of recent results in the electro-weak and strong production channels for both R-Parity conserving and R-Parity violating SUSY scenarios will be presented.

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

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