



**UNIVERSITÉ  
DE GENÈVE**

**FACULTÉ DES SCIENCES**  
Département de physique  
nucléaire et corpusculaire

## SÉMINAIRE DE PHYSIQUE CORPUSCULAIRE

**SUJET:**        **Event reconstruction in SUSY searches at ATLAS and the LHC**

**PAR:**         **Dr Teng Jian KHOO**  
**Université de Genève**

**DATE:**        Mercredi 2 mars 2016, 11h15

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

### RÉSUMÉ:

The LHC experiments have since 2010 dramatically transformed the landscape of supersymmetry, providing ever tighter constraints on how supersymmetric theories could be realised in nature. Central to most SUSY searches is the missing transverse momentum signature, signifying the presence of undetected particles such as stable neutralinos produced in cascade decays. This seminar will describe advances in the measurement of missing transverse momentum in ATLAS, and how we derive and employ transverse mass variables in the quest for supersymmetry at the LHC.

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

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