



**UNIVERSITÉ
DE GENÈVE**

FACULTÉ DES SCIENCES
Département de physique
nucléaire et corpusculaire

SÉMINAIRE DE PHYSIQUE CORPUSCULAIRE

SUJET : **Gamma-ray astronomy in the 100 TeV band**

PAR: **Prof. Andrii Neronov**
ISDC, Université de Genève

DATE: Mercredi 31 octobre, 11h15

LIEU: **Science III, Auditoire 0009**
30, quai Ernest-Ansermet, 1211 Genève 4

RÉSUMÉ:

Small size telescopes (SST) sub-array of the next-generation ground-based gamma-ray observatory CTA will extend the energy "window" available for astronomical observations toward the 100 TeV energy band. Based on the experience of observations with the current-generation gamma-ray telescopes, HESS, MAGIC and VERITAS, we have some idea of what kinds of astronomical sources and what kinds of astrophysical phenomena we will observe in this new "extremely high energy" (EHE) band. However, future observations of the sky in the up-to-now unexplored EHE gamma-ray band might bring some surprising unexpected discoveries. In this talk I will review the perspectives and challenges of the new field of EHE gamma-ray astronomy which will be opened by the SST sub-array of CTA.

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

ORGANISATEURS: Prof. Teresa.Montaruli@unige.ch, Prof. Giuseppe.Iacobucci@unige.ch