



**UNIVERSITÉ
DE GENÈVE**

FACULTÉ DES SCIENCES
Département de physique
nucléaire et corpusculaire

SEMINAIRE DE PHYSIQUE CORPUSCULAIRE

SUJET : Light emission in PMT and SiPM

PAR: Mac Knoting
Candidat à un poste de doctorant

DATE: Mercredi 7 mars 2012, **16h30**

LIEU: **Salle 234, Ecole de physique**
24, quai Ernest-Ansermet, 1211 Genève 4

RESUME:

Photomultipliers (PMT) are the standard light detector for applications with low levels of light and fast timing. This makes them ideal detectors in astroparticle physics. But the development in silicon photomultiplier (SiPM) technology is fast. They could, one day, replace the old PMTs.

Both detectors show light emission under regular operation. This contributes to their noise and degrades the detector performance. I will present new studies on the light emission in Si avalanches, optical cross-talk imaging in SiPM and on the light emission responsible for the fast after-pulsing effect in PMTs.

INFORMATION : <http://dpnc.unige.ch/seminaire/annonce.html>
ORGANISATEUR: Mrs Gabriella Pasztor