



**UNIVERSITÉ  
DE GENÈVE**

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

## **SÉMINAIRE DE PHYSIQUE CORPUSCULAIRE**

**SUJET:** A window to the future : the Hyper-Kamiokande project

**PAR:** Prof. Francesca Di Lodovico  
London University

**DATE:** Mercredi 9 avril 2014, 11h15

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

### **RÉSUMÉ:**

In this talk we present the latest status of the Hyper-Kamiokande project. The experiment, based in Japan, has an extremely rich physics portfolio that spans from the study of the CP violation in the leptonic sector and neutrino mixing parameters to proton decay, atmospheric neutrinos and neutrinos of an astronomical origin.

In particular, thanks to an upgraded beam power, we will focus on the extremely high sensitivity to CP violation.

The project was recently selected as one of the top 27 projects by the Japanese Science Council in the "Japanese Master Plan of Large Research Projects" and is supported worldwide by the international community. It is currently in the design and R&D phase.

In this talk we will review both the physics potential of the experiment and the current design and R&D.

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

ORGANISATEURS: Prof. [Teresa.Montaruli@unige.ch](mailto:Teresa.Montaruli@unige.ch), Prof. [Giuseppe.Iacobucci@unige.ch](mailto:Giuseppe.Iacobucci@unige.ch)