



**UNIVERSITÉ  
DE GENÈVE**

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

## **SÉMINAIRE DE PHYSIQUE CORPUSCULAIRE**

**SUJET :** Higgs Boson properties and how to constrain them

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**DATE:** Mercredi 26 septembre 2012, 11h15

**LIEU:** Science III, Auditoire 1S081  
30, quai Ernest-Ansermet, 1211 Genève 4

### **RÉSUMÉ:**

The recently-discovered new boson at CERN seems to be a good candidate for the long-sought Higgs boson. This seminar explores what we need to learn about it to confirm that it is the Higgs boson and how we will obtain that information. Some progress should come rather rapidly at the LHC, but other information will be much harder. If it is the Higgs boson then its existence at this mass presents some interesting puzzles, and more detailed measurements may tell us something about the dark matter binding galaxies together and maybe the ultimate fate of the Universe.

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