



Colloques de Physique des Particules

**dans le cadre de la procédure de nomination d'un-e
professeur-e associé-e ou assistant-e au DPNC**

SUJET: Higgs Physics at the Energy Frontier

PAR: Dr Krisztian Peters

DATE: Mercredi 27 novembre 2013, 11h00

LIEU: Science III, Auditoire 1S059
Boulevard d'Yvoy, 1211 Genève 4

RÉSUMÉ:

The recent discovery of a scalar boson at the Large Hadron Collider (LHC) and the confirmation of its Higgs-like nature are a huge leap forward in understanding electroweak symmetry breaking and the fundamental theory of particle physics. During the LHC Run 1 which has completed in 2012, a large dataset has been accumulated. This allows to measure the properties of this new particle in great detail and to test whether it is indeed the Higgs boson as predicted by the Standard Model of particle physics. In this presentation I review the path from the discovery to the first precision measurements of the Higgs particle at hadron colliders, and give particular emphasis to the latest results from the LHC.

Les membres du corps enseignants et les étudiants sont invités aux colloques et peuvent faire part de leurs commentaires au Doyen de la Faculté