



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:** Life after Higgs
- PAR:** Dr Tobias GOLLING
- DATE:** Mercredi 27 novembre 2013, 09h00
- LIEU:** Science III, Auditoire 1S059
Boulevard d'Yvoy, 1211 Genève 4

RÉSUMÉ:

Life after Higgs is probably as exciting as never before: it represents the culmination of the question if naturalness is the guiding principle in our understanding of particle physics. I will illustrate that the LHC experiments are in a unique position to shed light on this and many other puzzles of the Standard Model of particle physics. The grand ideas to solve these mysteries will be introduced and the key experimental techniques and strategies in the search for physics beyond the Standard Model will be presented. Concrete examples of searches for supersymmetric partners of the top quark will be used to illustrate the status and prospects of the hunt for new phenomena with the ATLAS experiment.

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