



Irfu

Institut de recherche
sur les lois fondamentales
de l'Univers

**Séminaire
SPP**

Lundi 18/09/2017, 11h00-12h00

CEA-Saclay Bat 141, salle Andr © Berthelot

The Physics Program of the High Luminosity LHC

BRIAN PETERSEN

CERN

The LHC has successfully delivered more than 50 fb⁻¹ of proton-proton collisions leading to the discovery of the Higgs Boson, extensive limits on beyond Standard Model physics models and a broad set of precision measurements. Major upgrades of both the LHC accelerator complex and the experimental detectors are planned over the next ten years. These will increase the recorded luminosity by almost two orders of magnitude. The seminar will present the physics case for the high luminosity LHC upgrade, the planned experimental upgrades of the ATLAS and CMS experiments and the physics reach which can be achieved after these upgrades.

Le caf © sera servi 10 minutes avant.

NB : La pr ©sentation d'une pi ©ce d'identit © est exig ©e    l'entr ©e du centre. Tous les auditeurs ext ©rieurs sont pri ©s de pr ©venir    l'avance Martine Oger, t ©l. 01 69 08 23 50, e-mail : martine.oger@cea.fr. (U.E. : d ©lai de 24 h, hors U.E. : d ©lai de 4 jours).