



Irfu

Institut de recherche
sur les lois fondamentales
de l'Univers

**Séminaire
DPhP**

Lundi 08/04/2019, 11h00

CEA-Saclay Bât. 141, salle André Berthelot

The ATLAS Liquid Argon EM calorimeter, its performance and role in $H \rightarrow \gamma\gamma$ studies

GUILLAUME UNAL

CERN

Performant identification and energy measurement of electrons and photons are required for many studies performed at the Large Hadron Collider, among which precise studies of the Higgs boson using the di-photon final state. The role of the ATLAS Liquid Argon electromagnetic calorimeter in these measurements will be discussed. The studies of its performance with pp collision data will be described, including the extraction of in-situ calibration corrections. The foreseen upgrades will also be presented and their impacts on the physics program summarized.

Le café sera servi 10 minutes avant.

NB : La présentation d'une pièce d'identité est exigée à l'entrée du centre. Tous les auditeurs extérieurs sont priés de prévenir à l'avance Martine Oger, tél. 01 69 08 23 50, e-mail : martine.oger@cea.fr. (U.E. : délai de 24 h, hors U.E. : délai de 4 jours).