



Lrfu

Institut de recherche
sur les lois fondamentales
de l'Univers

**Séminaire
SPP**

Mardi 03/06/2014, 10h30

CEA-Saclay Bat 141, salle André Berthelot

Boosting new physics searches at ATLAS

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Many theories of new physics beyond the Standard Model of particle physics predict the production, at the LHC, of heavy new particles that decay to top quarks and/or massive electroweak bosons. When the new particles are very heavy the decay products can be produced with sufficient boost that their decay products overlap within experimental detectors. This provides new challenges for physics analyses that wish to reconstruct such 'boosted' objects. In this seminar I will present studies of boosted object reconstruction techniques performed by the ATLAS collaboration and discuss their application in searches for new heavy resonances.

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).