



LHC Seminar

SPEAKER: Loic Valery

TITLE: **ATLAS searches for vector-like quarks and heavy resonances decaying to top quarks**

DATE: 18 Sep 2018, 11:00

PLACE: 503-1-001 - Council Chamber

ABSTRACT

Third generation quarks, in particular the heavy top quark, can be a privileged way to access physics beyond the Standard Model (BSM). Vector-like quarks, whose decay involve third-generation quarks, appear in BSM theories aiming at solving the hierarchy problem. BSM models also predict new resonances that decay preferably into heavy quarks. The seminar presents newest results from this search program along with some of its crucial elements, as the reconstruction and identification of top quarks and the understanding of the SM top quark production.

Organised by: M. Mangano, M. Pepe-Altarelli, G. Unal.....
Refreshments will be served at 10h30