



# LHC Seminar

SPEAKER: Ximo Poveda Torres

TITLE: **Evidence for ttH production with the ATLAS detector**

DATE: 24 Oct 2017, 11:00

PLACE: 500-1-001 - Main Auditorium

## ABSTRACT

A direct measurement of the top quark Yukawa coupling is possible through the Higgs boson production in association with a top quark pair (ttH). Recent ATLAS ttH results using 36.1 fb<sup>-1</sup> of LHC pp collision data at  $\sqrt{s}=13$  TeV are presented in this seminar. The analysis exploits several Higgs boson decay channels, together with different top quark decay modes. The results provide experimental evidence for the ttH production process.