



# LHC Seminar

SPEAKER: Ximo Poveda Torres (University of Wisconsin (US))

TITLE: **Search for supersymmetry in events involving third generation squarks and sleptons with ATLAS**

DATE: Tue 14/02/2012 11:00

PLACE: Council Chamber

## ABSTRACT

Supersymmetry with large mixing between left and right scalar fermions predicts that the lightest partners of the SM fermions belong to the third generation. Moreover, naturalness arguments favour stop masses not too far from that of the top quark. The seminar presents results from searches for gluino mediated sbottom and stop production, direct sbottom production, and gluino and squark mediated stau production using 2 fb<sup>-1</sup> of data recorded with the ATLAS detector.