



Contribution ID: 241

Type: **Parallel talk**

## Searches for direct pair production of third generation squarks with the ATLAS detector

*Thursday, 11 July 2019 10:45 (15 minutes)*

Naturalness arguments for weak-scale supersymmetry favour supersymmetric partners of the third generation quarks with masses light enough to be produced at the LHC. The ATLAS experiment has a variety of analyses devoted to stop direct production exploiting advanced analysis techniques. This talk presents recent results of searches for stops and sbottoms, including models with long decay chains involving Higgs and/or Z bosons, and their interpretation in associated-production DM models.

**Primary author:** JUSTE ROZAS, Aurelio (ICREA and IFAE (ES))

**Presenter:** YOSHIHARA, Keisuke (University of Pennsylvania (US))

**Session Classification:** Searches for New Physics

**Track Classification:** Searches for New Physics