



Contribution ID: 39

Type: **Talk**

## Search for vector-like quarks with the ATLAS detector

*Monday 4 July 2016 17:50 (20 minutes)*

New vector quarks appear in many beyond the Standard Model trying to cancel the mass divergence for the Higgs boson. At the LHC such new quarks can be produced singly or in pairs and, depending on their decays, can originate several different final states. A topological approach was followed by ATLAS, allowing to comprehensively cover such final states in a model independent way. The status of these searches will be reviewed, with emphasis on the complementarity between the different analysis.

**Author:** YAMAGUCHI, Daiki (Tokyo Institute of Technology (JP))

**Presenter:** YAMAGUCHI, Daiki (Tokyo Institute of Technology (JP))

**Session Classification:** Non-SUSY and Exotics

**Track Classification:** Non-SUSY and Exotics