Blois 2016: 28th Rencontres de Blois on "Particle Physics and Cosmology"

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## **Top partners / vector-like fermions**

Wednesday 1 June 2016 15:40 (20 minutes)

## Summary

In this talk I will review the motivations behind the introduction of top partners (aka vector-like quarks) in BSM models, and discuss their phenomenology at the LHC. Particular attention will be dedicated to single and electroweak production, which may be most relevant at Run-II. I will present preliminary results from a new QCD-NLO implementation.

Author: CACCIAPAGLIA, Giacomo Presenter: CACCIAPAGLIA, Giacomo Session Classification: EW + Top + Higgs