



Contribution ID: 13

Type: Oral Presentation

## A non-minimal composite Higgs model

*Wednesday, 10 July 2019 11:40 (20 minutes)*

Composite Higgs studies, where the Higgs boson emerges as a pseudo-Nambu-Goldstone boson after the breaking of the global symmetry group, present a BSM solution to issues such as the hierarchy problem. In such models, the Higgs is described as a bound state of a confining “strong” force. Here, we investigate the phenomenology of a model with a non-minimal group structure, where the Yukawa couplings are generated through the partial compositeness mechanism. This leads to a spectrum of composite fermion partners, the lightest of which is the top partner.

**Apply to be considered for a student &nbsp; award (Yes / No)?**

Yes

**Level for award (Hons, MSc,   PhD, N/A)?**

PhD

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**Session Classification:** Theoretical and Computational Physics

**Track Classification:** Track G - Theoretical and Computational Physics