



Contribution ID: 20

Type: **not specified**

The SHIFT project (12'+3')

Tuesday 16 October 2018 15:45 (15 minutes)

The presentation will summarize the scope and status of the SHIFT project, which is a collaboration between experimental and theoretical particle physicists at Chalmers, Stockholm and Uppsala. The focus is to search for top partners that can protect the mass of the Higgs boson from large quantum corrections. We study possible signatures of such top partners and search for them using data from the ATLAS experiment. We cover direct searches for top partners in supersymmetry and compositeness models as well as indirect searches via precision measurements of processes involving top quarks.

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Session Classification: Partikeldagarna 2018