

# The SHIFT project: status and prospects

*Wednesday 15 June 2022 15:45 (15 minutes)*

SHIFT (Solving the Higgs Fine-tuning problem with Top partners) is a Swedish theory-experiment collaboration with participants from Chalmers, Stockholm University and Uppsala, which is funded by KAW between January 2018 and June 2023. The aim of the project is to develop new models and search for top partners which could potentially explain the low mass of the Higgs boson, as well as perform precision measurements of processes involving top quarks, with the same goal. In this talk, we present the latest result from our studies of supersymmetry, composite Higgs models and indirect searches.

**Authors:** BERGEAAS KUUTMANN, Elin (Uppsala University (SE)); MILSTEAD, David Anthony (Stockholm University (SE)); FERRETTI, Gabriele; SJOELIN, Joergen (Stockholm University (SE)); ENBERG, Rikard; STRANDBERG, Sara (Stockholm University (SE))

**Presenter:** BERGEAAS KUUTMANN, Elin (Uppsala University (SE))

**Session Classification:** Sektionen för elementarpartikel och astropartikelfysik

**Track Classification:** Parallel session: partikelsektionen