

# Searches for Beyond the Standard Model Higgs bosons in fermionic final states within CMS

*Friday 19 July 2024 20:45 (15 minutes)*

This poster is dedicated to searches for additional Higgs bosons from an extended Higgs sector in fermionic final states. These scalar states are predicted by several Beyond Standard Model theories, like Two Higgs doublet Models (2HDM) and the Minimal Supersymmetric extension of the Standard Model (MSSM). The results are interpreted in various benchmark scenarios.

## Alternate track

1. Higgs Physics

## I read the instructions above

Yes

**Primary author:** LEYVA PERNIA, Daina (Deutsches Elektronen-Synchrotron (DE))

**Presenter:** LEYVA PERNIA, Daina (Deutsches Elektronen-Synchrotron (DE))

**Session Classification:** Poster Session 2

**Track Classification:** 03. Beyond the Standard Model