

# Constraining composite Higgs models with LHC data

*Tuesday 25 February 2025 15:15 (15 minutes)*

I will present the results of two recent recasting studies using MadAnalysis5, CheckMATE and Rivet/Contur. I will focus on processes that are interesting for composite Higgs models. The first is a study of Drell-Yan production of extended Higgs sectors, putting upper limits on cross section times branching ratio for a large number of final states. Besides the limits themselves, this serves as an interesting overview of the recasting landscape. In a second step we consider pair production of vector-like quarks with exotic decays via the aforementioned scalars.

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