

DIS2023: XXX International Workshop on Deep-Inelastic Scattering and Related Subjects



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Type: **Parallel talk**

Higgs couplings to fermions in the CMS experiment

Tuesday, 28 March 2023 10:50 (20 minutes)

With the large data set collected during Run 2 of the LHC, it is possible to measure precise Higgs Yukawa couplings and go beyond inclusive Higgs boson cross section measurements. Simplified template cross sections (STXS), which make use of several variables to divide up the phase space of the different Higgs boson production modes, and differential cross sections can be measured. The STXS binning is designed to be particularly sensitive to possible BSM effects. This talk will discuss the latest measurements from the CMS experiment in the $H \rightarrow \tau\tau$ and $H \rightarrow b\bar{b}$ decay channels.

Submitted on behalf of a Collaboration?

Yes

Participate in poster competition?

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