

## Recent STXS measurements from CMS

*Thursday, November 10, 2022 3:35 PM (15 minutes)*

With the large data set collected during Run 2 of the LHC, it is possible to go beyond inclusive Higgs boson cross section measurements. One way in which this is done is through the simplified template cross sections (STXS), which make use of several variables to divide up the phase space of the different Higgs boson production modes. The binning is designed to be particularly sensitive to possible BSM effects. This talk will discuss the latest STXS measurements from the CMS experiment, for example in the  $H \rightarrow \tau\tau$  and  $H \rightarrow WW$  decay channels. The analysis techniques used to optimise the sensitivity to the different STXS bins will also be described.

### Type of talk

Experimental measurements

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**Session Classification:** Thursday Session A

**Track Classification:** Physics Topics: Precision measurements