

VBF HH Taskforce News

VBF HH signal samples will be regenerated

- Without VHH contamination
 - Current samples are shown to be extremely error prone
- With increased statistics for SM and around the limits (for channels that need it)
- Parton showering is changed to Pythia8 (Herwig7 was used in the previous JOs)
- Switched to use NLO pdf set
- JOs are ready and the validation is almost complete (more info at [the last VBF HH taskforce meeting](#))

Discussion ongoing for the possible VBF HH CONF Note for Moriond 2021 ([proposal](#))

- Excluding the $c_{2V}=0$ scenario is one of the main goals for the full Run 2 analyses
 - Means that we can make a definitive statement that this coupling exists
- Exclusion limit from 4b alone is now at $\sim c_{2V}=0$ ([Rachel Hyneman's talk](#))
 - Discussion ongoing for the possible inclusion of $bb\tau\tau$ and $bb\gamma\gamma$ analyses