

Parton Shower Uncertainties studies

In this page, we collect results and activities related to Parton Shower Uncertainties studies for Higgs analysis.

Existing material

- Modeling studies for ttH/ttV final states [↗](#)
- Les Houches studies on Higgs plus jet distributions [↗](#)
- Les Houches studies on Higgs plus jet distributions: published version with additional studies of dijets, Z+jets [↗](#)
- Resummation ambiguities for H pt [↗](#)
- Zbb studies [↗](#)

Action items

- Collect and share information about relevant PS issues (large discrepancies between generators etc.)
- Coordinated study of ``test-case" analysis, similar to Les Houches effort

Highlighted issues

- Efficient sharing of material
- Recoil scheme studies

Meetings

- Kick-off meeting, Jun 27th 2019 [↗](#)
- Parallel session on PS during 16th LHCHXS workshop [↗](#)
- Parton Shower Uncertainties in Higgs Measurements (Session 1), March 07th 2020 [↗](#)

Mailing-list

If you are interested in these studies, please register to lhc-higgs-xsbr-ps@spamnotNOSPAMPLEASE.cern.ch. You can find instructions on how to register to HXSWG mailing lists here. If you do not have a CERN account please let the WG1 conveners know.

-- FabrizioCaola - 2019-06-27

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