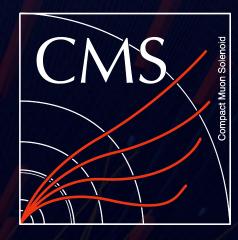
WG1-VBF MEETING NEWS

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Northeastern University



LATEST VBF-RELATED PUBLISHED STUDIES

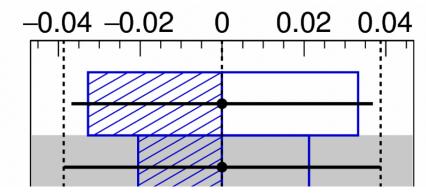
- STXS uncertainties for EW qqH process:
 - Uncertainty scheme for VBF only is available here [1]
 - Hadronic VH inclusion is ongoing
 - Predictions based on HJets++ [2]
 - An updated version of the EW qqH (VBF+VH) tool will be available in few days
- Quantifying Parton Shower uncertainties:
 - One of the main topics discussed at HL19 this year:
 - Largest uncertainty in many Higgs measurements
 - PS uncertainties have been a recurring theme since LH15 but a common produce is yet to be agreed upon
 - In WG1-VBF group we focused in the fuse VBF/VBS as a study case
 - More on Simon's talk
 - e-group: lhc-higgs-vbf: please subscribe!
 - Detailed activities are listed in the goup's twiki: <u>https://twiki.cern.ch/twiki/bin/view/LHCPhysics/LHCHXSWGVBF</u>
 - Please contact us if you want to contribute



- [2] arXiv:1308.2932

UEPS ttH

photon isolation efficiency



[1] - <u>https://gitlab.cern.ch/LHCHIGGSXS/LHCHXSWG2/STXS/VBF-Uncertainties/blob/master/qq2Hqq_uncert_scheme.cpp</u>

