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LHC Higgs Cross Section Working Group 1

Mailing list:	lhc-higgs-xsbr@cernNOSPAMPLEASE.ch use this link ↗ to subscribe.
Meetings	agenda ↗

Mail to conveners	ATLAS	CMS	THEORY	
Mail	Giovanni Marchiori (LPNHE (IN2P3/CNRS))	Alicia Calderon (Universidad de Cantabria)	John Campbell (Fermilab)	Fabrizio Caola (Oxford)

Group TWiki	Group Mailing List	Mail to conveners	ATLAS	CMS	THEORY		
BR		Mail	Daniela Rebutzi (Pavia)	Ivica Puljak (Split)	Ansgar Denner (Würzburg)	Sven Heinemeyer (IFCA)	Alexander Mück (Aachen)
ggF		Mail	Kathrin Becker (Freiburg)	Andrea Massironi (Northeastern U)	Bernhard Mistlberger (CERN)	Emanuele Re (Annecy)	
VBF	Mailing List	Mail	Antonio De Maria (Nanjing University)	Yacine Haddad (Imperial College)	Alexander Karlberg (Zurich)	Simon Plaetzer (University of Vienna)	
VH	Mailing List	Mail	Thomas Calvet (Stonybrook)	Chris Palmer (Princeton)	Ciaran Williams (Buffalo)	Giancarlo Ferrera (University of Milan)	
ttH/tH	Mailing List	Mail	Maria Moreno Llacer (IFIC, CSIC-U.Valencia)	Joshua Thomas-Wilsker (Chinese Academy of Sciences)	Stefano Pozzorini (Zürich)	Laura Reina (Florida)	
Offshell		Mail	Lailin Xu (Brookhaven BNL)	Ulascan Sarica (Univ. of California Santa Barbara)	Nikolas Kauer (Royal Holloway)	Raoul Roentsch (KIT, Karlsruhe)	

Group	ShortDescription	Deliverables	Timescale	
ggF	Uncertainties in kinematic regions	Recommendation (LHCXSWG-INT-2017-001); Tool ↗	---	It is a set of per-event weights, one for each simplified/template cross section setup, with the reference being this the reference and the most

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				Re-weighting Powheg to NNLOPS is calculated with a given perturbative order. If the result may be inconsistent.
ggF	Boosted-Higgs cross-section recommendation	Recommendation (LHCXSWG-2019-002)	Fall 2019	Note available here ↗
VBF	PS uncertainties	[potentially public note] PS issues abroad wide range of relevant observables	First deliverables: spring/summer 2020	
VBF	STXS uncertainties	Public tool, public note	Spring/Summer 2020	---
VBF	Jet multiplicities merging and Parton shower accuracy	[potentially public note]	>Summer 2020	---
VBF	Higher-order corrections	[potentially public note]	>2020	---
VBF	Parton Shower Uncertainties	[potentially public note]	Summer 2020	---
VBF	Higgs Boson Plus Dijets	[potentially public note]	Summer 2020	---
VH	VH XS prediction and uncertainties in STXS framework	Software tool providing central value and uncertainties + recommendations	---	
VH	V+hf modeling for VH(bb)	[public note] MC comparison across several V+hf MC tools targeting VH(bb) phase space, guidelines for theory uncertainties on V+hf predictions	---	
VH	ggZH merged predictions	[potentially public note] Comparison between showered ggZH 0+1jet merged LO MC prediction, and ggZH LO prediction	---	
ttH/tH	Quantify theory-related uncertainties	Rivet analysis for MC/MC comparisons	---	Identify all important theory-related backgrounds. Final aim of these MC/LO recommendations for theoretical uncertainties
Offshell	Harmonise ATLAS/CMS/Theory	Guiding documentations (public note on arXiv)	july 2020	TWiki page: HiggsOffshellTaskForce See here for the detailed plans: https://twiki.cern.ch/twiki/pub/LHCPhysics/HiggsOffshellTaskForce



Studies on parton shower uncertainties

GiovanniMarchiori - 2020-03-27

This topic: LHCPHysics > LHCHXSWG1

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