

WG1 fall meeting

Alexander Karlberg, John Campbell, Julie Malcles, Roberto Di Nardo

Overview

- Preparation for LHCHWG General Meeting, December 1-3.

<https://indico.cern.ch/event/1018653>

- In the past we often had a pre-meeting with subgroup conveners only, but wanted to touch base with wider WG community this year.
- Identify topics/talks for December, as well as possible overlap with activities of other WGs (typically STXS - WG2 and BSM - WG3).
- Subgroup conveners:
 - we will follow up to finalize talks over the next few weeks.
 - please update your Twikis to reflect the latest progress and projects before December, so we can update the WG roadmap accordingly (<https://twiki.cern.ch/twiki/bin/view/LHCPhysics/LHCHWG1>).

December meeting

- For attending the workshop, please register by Nov. 29th: <https://indico.cern.ch/event/1018653/registrations/>
Zoom coordinates and passwords will be distributed a few days ahead of the workshop.
- Workshop will be held virtually (with rooms at CERN just for people who are already at CERN).
 - Only plenary sessions (2 hours/WG) , from 1-7pm CET every day. Focus on items/topics with important progress since the last year's workshop.
 - A slot for plenary discussion after the end of each WG plenary session
 - Another slot after that with informal/'over coffee/tea' discussions in the speakers' zoom rooms
- One mattermost channel for each WG for additional questions to session speakers
- A cross-cutting topics session on Friday 1pm CET, for topics that are common among WGs
- A 'summary+future plans' talk on each WG's activities to be given in the final session, including any feedback from interesting discussions that happened either in the plenary sessions or on the mattermost channel.

Thanks and welcome

- Many personnel changes in the ranks in the last six months. We're very grateful for the dedication of the outgoing conveners and look forward to working with the newcomers.
- WG1 convener: thanks Fabrizio Caola and welcome to Alexander Karlberg.
- BR: thanks Ansgar Denner for many years of service, welcome Michael Spira.
- ggF: thanks Andrea Massironi, welcome Jonathon Langford, Stephen Jones.
- VBF: thanks Yacine Haddad, welcome Stephane Cooperstein, Mathieu Pellen.
- VH: thanks Thomas Calvet.
- ttH: thanks Joshuha Thomas-Wilsker, welcome Sergio Sanchez Cruz.
 - also an early welcome to Malgorzata Worek and Marco Zaro, overlapping with Stefano and Laura until they step down at the end of the year.
- Offshell: thanks Ulascan Sarica, welcome Savvas Kyriacou.

15:00	→ 15:15	Welcome Speakers: Dr Alexander Karlberg (University of Oxford) , John Campbell, Julie Malcles (Université Paris-Saclay (FR)) , Roberto Di Nardo (Università e INFN Roma Tre (IT))	🕒 15m
15:15	→ 15:35	Update on offshell studies Speakers: Lailin Xu (University of Science and Technology of China (CN)) , Nikolas Kauer (Royal Holloway, University of London) , Raoul Horst Rontsch, Savvas Kyriacou (Johns Hopkins University (US)) <div>📄 roentsch_WG1_202...</div>	🕒 20m
15:35	→ 15:40	VPF Ongoing Activities Speakers: Antonio De Maria (Nanjing University (CN)) , Mathieu Pellen (University of Freiburg) , Simon Platzer (University of Vienna (AT)) , Stephane Brunet Cooperstein (Univ. of California San Diego (US)) , Yacine Haddad (Northeastern University (US)) <div>📄 WG1 VPF for Gener...</div>	🕒 5m
15:40	→ 16:00	NLO jet merging in VPF Speakers: Simon Platzer (University of Vienna (AT)) , Terrance Figy (Wichita State University) <div>📄 HiggsXS-WG1-Fall2...</div> <div>🔗 NLO Jet Merging usi...</div>	🕒 20m
16:00	→ 16:25	STXS 1.2 for ggF Speakers: Bernhard Mistlberger (SLAC National Accelerator Laboratory (US)) , Haider Abidi (Brookhaven National Laboratory (US)) , Jonathon Mark Langford (Imperial College (GB)) , Stephen Philip Jones (University of Durham (GB)) <div>📄 TheorySysggF.pdf</div>	🕒 25m
16:25	→ 16:45	Experiment and theory update on VH Speakers: Alessandro Calandri (Eidgenoessische Technische Hochschule Zuerich (CH)) , Ciaran Williams (SUNY Buffalo) , Giancarlo Ferrera (Università degli Studi e INFN Milano (IT)) <div>📄 VHstatus_WG1meet...</div>	🕒 20m
16:45	→ 17:05	PDF4LHC21 benchmarking Speakers: Joey Huston (Michigan State University (US)) , Josh Bendavid (CERN) , Maria Ubiali, Robert Samuel Thorne (University College London (UK))	🕒 20m
17:05	→ 17:30	Progress towards ttW theory recommendation Speakers: Josh McFayden (University of Sussex) , Laura Reina (Florida State University (US)) , Sergio Sanchez Cruz (Universitaet Zuerich (CH)) , Stefano Augusto Pozzorini (Universitaet Zuerich (CH))	🕒 25m
17:30	→ 17:50	NLO QCD corrections to ttbb with full off-shell effects Speaker: Malgorzata Maria Worek (Rheinisch Westfaelische Tech. Hoch. (DE)) <div>📄 ttbb.pdf</div>	🕒 20m

Busy timetable
 of presentations
 — please try to
 keep to time
 (mostly 15’) so
 that we have
 room for 5’
 discussion after
 each talk.