

LHC Electroweak Working Group General Meeting

15th -17th of November 2022, CERN

The organisers

WG Conveners: Alessandro Vicini (Theo), Christian Gutschow (ATLAS), Doreen Wackerroth (Theo), Evelin Meoni (ATLAS), Mika Vesterinen (LHCb), Paolo Azzurri (CMS), Stefan Dittmaier (Theo), Vitaliano Ciulli (CMS), William Barter(LHCb)

WG1 (Drell-Yan physics and EW precision measurements subgroup) Conveners: Daniel Froidevaux (ATLAS), Aram Apyan(ATLAS), Aleko Khukhunaishvili (CMS), Simone Amoroso (CMS), David d'Enterria (CMS), Mika Vesterinen (LHCb), Fulvio Piccinini (Theo)

WG2 (Jets and EW bosons subgroup) Conveners: Eram Rizvi (ATLAS), Javier Llorente (ATLAS), Armando Bermudez Martinez (CMS), Deniz Sunar Cerci (CMS), Stephen Farry (LHCb), Will Barter (LHCb), James Mulligan (ALICE), Nima Zardoshti (ALICE), Marek Schoenherr (Theo)

WG3 (Multiboson Subgroup) Conveners: Shu Li (ATLAS), Heather Russell (ATLAS), Philip Chang (CMS), Roberto Covarelli CMS), Jonas Lindert (Theo) Celine Degrande (Theo)

Incoming and outgoing conveners

WG Conveners:

ATLAS from Oct 1st: Incoming: Christian Gutschow ; Outcoming: Andrew Pilkington

CMS from Dec 1st: Incoming: Guillermo Gomez-Ceballos; Outcoming: Paolo Azzurri

WG1 Conveners:

CMS from Dec 1st: Incoming David d'Enterria; Outcoming: Aleko Khukhunaishvili

WG2 Conveners:

CMS from Aug 1st: Incoming: Deniz Sunar Cerci; Outcoming: Mikko Voutilainen

WG3 Conveners:

ATLAS from Sept 1st: Incoming: Shu Li; Outcoming: Joany Manjarres Ramos

CMS from Nov 1st: Incoming: Yacine Haddad and Lorenzo Viliani; Outcoming: Roberto Covarelli and Philip Chang

*News since last
general meeting of
February*

*A warm thank-you to
outcoming conveners
and a welcome to
the incoming ones!*

The meeting

First general meeting in person since December 2019, but with large flexibility - allowed remote participation also for speakers

Main goal: discussion on general progresses since the last meeting of February and review of the activities in the various subgroups including the status of the Yellow Reports

Format of the meeting: 3 afternoon sessions (*from 2 PM CERN-time*)

First two days sessions : PDFs - Generators – EFTs - MW Combination - Recent measurements

Third day: reports on subgroups activities

Drink tomorrow around 18:30 outside the main Auditorium - 61/1-201 (in the space just above the stairs)

Agenda: <https://indico.cern.ch/event/1207513/timetable/>

Zoom: <https://cern.zoom.us/j/63483148777>

Agenda

TUESDAY, NOVEMBER 15

2:05 PM → 3:15 PM

PDFs

Convener: Evelin Meoni (Università della Calabria e INFN (IT))

40/S2-B01 - Salle Bohr

2:05 PM

intrinsic charm quarks in the proton

20m

Speaker: Stefano Forte (Università degli Studi e INFN Milano (IT))

2208.08372

2:40 PM

Approximate N3LO PDFs from MSHT20

20m

Speaker: Thomas Cridge (DESY)

2207.04739

3:15 PM → 4:15 PM

Generators

Convener: Vitaliano Ciulli (Università e INFN, Firenze (IT))

40/S2-B01 - Salle Bohr

3:15 PM

Recent developments on precision DY

20m

Speaker: Tobias Neumann

2205.11426

2207.07056

3:50 PM

photon production at NNLO with realistic photon isolation

15m

Speaker: Dr Marius Höfer (LMU Munich)

2205.01516

4:15 PM → 4:45 PM

Coffee Break

30m

40/S2-B01 - Salle Bohr

4:45 PM → 6:00 PM

Generators

Convener: Christian Gutschow (UCL (UK))

40/S2-B01 - Salle Bohr

4:45 PM

NLO QCD and EW correction to V+jets

15m

Speaker: Jonas Lindert (University of Sussex)

2204.07652

5:10 PM

NLO QCD and EW corrections to vector-boson scattering in W+W-

15m

Speaker: Mr Christopher Schwan (Universität Würzburg)

2202.10844

5:35 PM

WZ including NNLO QCD and NLO EW and matched to PS

15m

Speaker: Silvia Zanoli

2208.12660

Ask speakers to stay on time:

dedicated Mattermost channel for follow-up questions

and discussions

[https://mattermost.web.cern.ch/signup_user_complete/?](https://mattermost.web.cern.ch/signup_user_complete/?id=gyx7pz8x6fgcdkuk54w86m3atr)

[id=gyx7pz8x6fgcdkuk54w86m3atr](https://mattermost.web.cern.ch/signup_user_complete/?id=gyx7pz8x6fgcdkuk54w86m3atr)

Agenda

WEDNESDAY, NOVEMBER 16

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2:00 PM → 2:55 PM	EFT Convener: Paolo Azzurri (Università & INFN Pisa (IT))	40/S2-B01 - Salle Bohr
2:00 PM	Report from LHC EFT WG Speaker: Andrew Gilbert (Northwestern University (US))	15m
2:25 PM	Adding Flavor to the SMEFT Speaker: Anders Eller Thomsen (Universität Bern) 2203.09561	20m
2:55 PM → 3:25 PM	W mass Convener: Evelin Meoni (Università della Calabria e INFN (IT))	40/S2-B01 - Salle Bohr
2:55 PM	Report from W mass combination group Speaker: Jan Kretzschmar (University of Liverpool (GB))	15m
3:25 PM → 4:20 PM	Recent Experimental Results Convener: Christian Gutschow (UCL (UK))	40/S2-B01 - Salle Bohr
3:25 PM	Latest V+jets measurements Speaker: Sook Hyun Lee 2205.02597 2208.11691 CMS-PAS-SMP-21-...	20m
3:55 PM	Study of Z → ℓℓγ decays Speaker: Alexey Khramov (Budker Institute of Nuclear Physics (RU)) ATLAS-CONF-2022-...	15m
4:20 PM → 4:40 PM	Coffee Break	20m 40/S2-B01 - Salle Bohr
4:40 PM → 6:00 PM	Recent Experimental Results Convener: Paolo Azzurri (Università & INFN Pisa (IT))	40/S2-B01 - Salle Bohr
4:40 PM	DY pT in mass bins Speaker: Laurent Favart (Université Libre de Bruxelles (BE)) 2205.04897	15m
5:05 PM	WZ polarisation measurements Speaker: Luka Selem (Centre National de la Recherche Scientifique (FR)) ATLAS-CONF-2022-...	15m
5:30 PM	New VBS measurements Speaker: Andrew Michael Levin (Peking University (CN)) 2208.12741 CMS-PAS-SMP-21-...	15m
6:30 PM → 7:30 PM	Welcome drink	1h 61/1-201 - Pas perdue - Not a ...

Agenda

THURSDAY, NOVEMBER 17		
2:00 PM → 3:15 PM	WG1 DY precision measurements : Activities report and outlook	📍 40/S2-B01 - Salle Bohr
	Conveners: Aleko Khukhunaishvili (University of Rochester (US)), Aram Apyan (Brandeis University (US)), Daniel Froidevaux (CERN), Fulvio Piccinini (Pavia University and INFN (IT)), Mika Anton Vesterinen (University of Warwick (GB)), Simone Amoroso (Deutsches Elektronen-Synchrotron (DE))	
2:00 PM	Overview of QED/EW correction benchmarking for DY	🕒 30m
	Speaker: Mauro Chiesa (University of Pavia)	
2:45 PM	Status of documentation and miscellanei	🕒 15m
	Speaker: Daniel Froidevaux (CERN)	
3:30 PM → 4:45 PM	WG2 Jets and Vector Bosons : Activities report and outlook	📍 40/S2-B01 - Salle Bohr
	Conveners: Armando Bermudez Martinez (CMS-DESY), Deniz Sunar Cerci (Adiyaman University (TR) - Istanbul University (TR)), Eram Syed Rizvi (Queen Mary, University of London), James Mulligan (University of California, Berkeley (US)), Javier Llorente Merino (Simon Fraser University (CA)), Marek Schoenherr (University of Durham (GB)), Nima Zardoshti (CERN), Stephen Farry (University of Liverpool (GB)), William Barter (University of Edinburgh)	
3:30 PM	Overview of WG2 activities	🕒 20m
	Speaker: Armando Bermudez Martinez (CERN)	
3:50 PM	Intrinsic kt tune overview	🕒 20m
	Speakers: Mikel Mendizabal, Weijie Jin (University of Zurich (CH))	
5:00 PM → 6:15 PM	WG3 Multibosons : Activities report and outlook	📍 40/S2-B01 - Salle Bohr
	Conveners: Celine Catherine A Degrande (CERN), Heather Russell (University of Victoria), Jonas Lindert (University of Sussex), Lorenzo Viliani (Universita e INFN, Firenze (IT)), Philip Chang (University of Florida (US)), Shu Li (Tsung-Dao Lee Institute (CN) & Shanghai Jiao Tong Univ. (CN)), Yacine Haddad (Northeastern University (US))	

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Enjoy the meeting!