

Session Program

10-12 Jul 2024

LHC EW WG General Meeting

Session

CERN, 40/S2-C01 - Salle Curie

Wednesday 10 July

10:00

Session: Opening session

Session | **Location:** CERN, 40/S2-C01 - Salle Curie | **Conveners:**

Alessandro Tricoli, Stefan Dittmaier, Vieri Candelise, Oldrich Kepka, William Barter, Doreen Wackeroth, Guillermo Gomez Ceballos Retuerto, Mika Vesterinen, Stefan Dittmaier, Alessandro Vicini

10:00-10:10

Welcome on behalf of LHC Physics Center

Speaker

Michelangelo Mangano

10:10-10:20

Workshop introduction

Speaker

Guillermo Gomez Ceballos Retuerto

10:20-11:00

Monte-Carlo developments and Electroweak/mixed QCD-EW corrections

Speaker

Marco Zaro

11:00-11:35

qT resummation report

Speaker

Luca Rottoli

11:35-12:15

General PDF status and prospects

Speaker

Amanda Sarkar

12:15-12:55

SM measurements in the next decade - MOVED TO FRIDAY MORNING

Speakers

FRANK KRAUSS, Frank Krauss

13:00

14:00

Session: Opening Session II (Experimental)

Session | **Location:** CERN, 40/S2-C01 - Salle Curie

14:00-14:35

Experimental perspective of the future SM LHC program

Speaker

Ulla Blumenschein

14:40

14:40

Session: Working Group 2 (Jets and EW bosons+jets)

Session | **Location:** CERN, 40/S2-C01 - Salle Curie | **Conveners:**

Mario Campanelli, William Barter, Deniz Sunar Cerci, Eram Syed Rizvi, Marek Schoenherr

14:40-14:50

Introduction and goals

Speakers

Deniz Sunar Cerci, Mario Campanelli

14:50-15:00

Jet substructure paper/report

Speakers

Deniz Sunar Cerci, Mario Campanelli

15:00–15:15

Ongoing CMS tuning efforts**Speaker**

Jie Xiao

15:15–15:30

Ongoing ATLAS tuning efforts**Speaker**

Ynyr Harris

15:30–15:40

Energy dependence of intrinsic k_T with the Parton branching method**Speaker**

Natasa Raicevic

15:40–15:55

V+light jets (ATLAS+CMS)**Speakers**

Giorgio Pizzati, Giorgio Pizzati

15:55–16:10

V+light jets (LHCb and ALICE)**Speaker**

Nathan Grieser

16:10–16:30

Energy-energy correlation measurements (CMS+ATLAS)**Speaker**

Meng Xiao

16:30

17:00

Session: WG1/WG2 Common Topics (Drell-Yan physics and EW precision measurements, Jets and EW bosons+jets)**Session** | **Location:** CERN, 40/S2-C01 - Salle Curie | **Conveners:**

Aram Apyan, Marek Schoenherr, Eram Syed Rizvi, Daniel Froidevaux, William Barter, Mario Campanelli, David d'Enterria, Fulvio Piccinini, Deniz Sunar Cerci, Mika Vesterinen, Simone Amoroso

17:00–17:15

Low-mu runs (ATLAS)**Speaker**

Fabrice Balli

17:15–17:30

Low-mu runs (CMS)**Speaker**

Jan Eysermans

17:30–17:40

Low-mu run (FWD perspective, CMS)**Speaker**

Michael Pitt

17:40–17:50

Low-mu run (FWD perspective, ATLAS)**Speakers**

Savannah Clawson, Savannah Clawson

17:50–18:10

Flavor and q/g def (theory talk)**Speakers**

Giovanni Stagnitto, Giovanni Stagnitto

18:10-18:30

Experimental aspects of flavour definition

Speaker

Dr Federico Sforza

18:30

Thursday 11 July

09:00

Session: Working Group 1 (Drell-Yan physics and EW precision measurements)

Session | **Location:** CERN, 40/S2-C01 - Salle Curie | **Conveners:**

David d'Enterria, Simone Amoroso, Mika Vesterinen, Daniel Froidevaux, Fulvio Piccinini, Aram Apyan

09:00–09:20

WG1 goals and paper status

Speaker

Fulvio Piccinini

09:25–09:50

W mass and width measurement

Speaker

Maarten Boonekamp

09:55–10:20

Weak mixing angle measurement at CMS

Speaker

Rhys Taus

10:30

11:00

Session: Working Group 3 (EW multi-boson production)

Session | **Location:** CERN, 40/S2-C01 - Salle Curie | **Conveners:**

Jonas Lindert, Celine Catherine A Degrande, Lorenzo Viliani, Yacine Haddad, Philippe Calfayan, Jonas Lindert, Shu Li

11:00–11:40

Multiboson and VBS measurements

Speaker

Mattia Lizzo

11:40–12:20

Polarisation measurements

Speakers

Erik Bachmann, Max Vincent Stange

12:20–13:00

Higher-order corrections for VBS and polarised processes

Speaker

Ansgar Denner

13:00

14:00

Session: Working Group 1 (Drell-Yan physics and EW precision measurements)

Session | **Location:** CERN, 40/S2-C01 - Salle Curie | **Conveners:**

Aram Apyan, Daniel Froidevaux, Mika Vesterinen, David d'Enterria, Fulvio Piccinini, Simone Amoroso

14:00–14:30

PDF issues: viewpoint from the experiments

Speaker

Simone Amoroso

14:40–15:00

MSHT report

Speaker

Dr Lucian Alexander Harland-Lang

15:05–15:25

ABMP report

Speakers

Oleksandr Zenaiev, Oleksandr Zenaiev

15:30–15:50

CTEQ report**Speaker**

Prof. Pavel Nadolsky

15:55–16:15

NNPDF report**Speaker**

Maria Ubiali

16:20

16:50

Session: Working Group 1 (Drell-Yan physics and EW precision measurements) - Common Topic: Theory Uncertainties**Session** | **Location:** CERN, 40/S2-C01 - Salle Curie | **Conveners:**

David d'Enterria, Daniel Froidevaux, Fulvio Piccinini, Simone Amoroso, Aram Apyan, Mika Vesterinen

16:50–17:10

Theory Uncertainty workshop summary**Speaker**

Alessandro Vicini

17:20–17:40

Theory Uncertainties in Extracting α_s from the Z pT Spectrum**Speakers**

Frank Tackmann, Frank Tackmann

17:50

Friday 12 July

09:00

Session: Working Group 3 (EW multi-boson production)

Session | **Location:** CERN, 40/S2-C01 - Salle Curie | **Conveners:**

Celine Catherine A Degrande, Jonas Lindert, Yacine Haddad, Shu Li, Lorenzo Viliani, Philippe Calfayan

09:00–09:40

Perturbative uncertainties for high-energy tails

Speaker

Jonas Lindert

09:40–10:20

Parton shower issues and ideas in VBS

Speaker

Dr Alexander Karlberg

10:20–10:50

Discussion

Speakers

Celine Catherine A Degrande, Jonas Lindert, Lorenzo Viliani, Philippe Calfayan, Shu Li, Yacine Haddad

11:10

11:10

Session: Common Topics

Session | **Location:** CERN, 40/S2-C01 - Salle Curie

11:10–11:50

SM measurements in the next decade

Speakers

FRANK KRAUSS, Frank Krauss

11:50