

## **Session Program**

**10-14 Jan 2022**



# **30th International Symposium on Lepton Photon Interactions at High Energies**

## ***Precision SM Measurements***

Online only

# Monday 10 January

08:30

## Precision SM Measurements: 1

**Session** | **Location:** Online only | **Convener:** Pippa Wells

08:30–09:00 **Higgs physics : experimental overview**

**Speaker**

Emanuele Di Marco

09:00–09:30 **Higgs and electroweak physics : theory**

**Speaker**

Ravindran Vajravelu

09:30–10:00 **Electroweak physics : experimental overview**

**Speaker**

Oldrich Kepka

10:00

10:30

## Precision SM Measurements: 2

**Session** | **Location:** Online only | **Convener:** Hafeez Hoorani

10:30–11:00 **Top physics : experimental overview**

**Speaker**

Andrea Helen Knue

11:00–11:30 **QCD at high-pT : experimental overview**

**Speaker**

Vieri Candelise

11:30–12:00 **Jet physics : theory overview**

**Speaker**

Gregory Soyez

12:00

16:15

## Precision SM Measurements: Poster session

**Session** | **Location:** Online only

16:16–16:17 **Measurement of Z boson production in association with jets at ATLAS**

**Speaker**

Alexandre Laurier

16:17–16:18

**Measurements of the Standard Model Higgs boson in pp collisions at 13 TeV with the ATLAS detector, in its associated production with a W or Z boson and decaying into a pair of b-quarks**

**Speaker**

Amy Tee

16:18-16:19

**Search for associated production of a Z boson with an invisibly decaying Higgs boson or dark matter candidates with the ATLAS detector using full Run-II Data at LHC****Speaker**

Eloisa Arena

16:19-16:20

**Vector meson photoproduction at the LHC with ALICE****Speaker**

Valeri Pozdniakov

16:20-16:21

**Search for top squark pair production with the CMS experiment****Speaker**

Andrea Trapote Fernandez

16:21-16:22

**The Higgs through the looking glass****Speaker**

Andrea Cardini

16:22-16:23

**Recent results in the H-> WW channel with full LHC Run-II data collected by the CMS experiment****Speaker**

Amandeep Kaur

16:23-16:24

**Study of the  $\omega \rightarrow \pi^0 e^+ e^-$  conversion decay with the CMD-3 detector at VEPP-2000 collider****Speaker**

Bogdan Kutsenko

16:25-16:26

**Impact of jet production data on the next-to-next-to-leading order determination of HERAPDF2.0 parton distributions****Speaker**

Florian Lorkowski

16:26-16:27

**Measurement of Exclusive  $\pi^+\pi^-$  and  $\rho^0$  Meson Photoproduction at HERA****Speaker**

Arthur Bolz

16:27-16:28

**Light meson spectroscopy at BESIII****Speaker**

Frederik Weidner

16:28-16:29

**Light hyperon physics at BESIII****Speaker**

Liang Yan

16:29-16:30

**Studies of charmonium decay from BESIII**

**Speaker**

Olga Bakina

16:30–16:31

**Cross sections measurement and search for exotic states at BESIII****Speaker**

Johannes Bloms

16:31–16:32

**Measurements of the R value at BESIII****Speaker**

Dong LIU

16:32–16:33

**Resummed Higgs boson cross section at next-to SV to NNLO+ $\overline{\text{NNLL}}$** **Speaker**

Surabhi Tiwari

16:33–16:34

**Search for CP violation in ttH and tH production in multilepton channels with CMS****Speaker**

Clara Ramon Alvarez

16:34–16:35

**Latest cross section measurements of the tW process at CMS****Speaker**

Duncan Leggat

16:35–16:36

**Electron and photon energy measurement calibration with the ATLAS detector****Speaker**

Fabio Lucio Lucio Alves

17:15

## Tuesday 11 January

14:00

### Precision SM Measurements: Parallel 1

**Session** | **Location:** Online only | **Convener:** Junjie Zhu

14:00–14:20 **Highlights of top quark measurements with the ATLAS experiment**

**Speaker**

Ana Peixoto

14:20–14:40 **Precision top mass determination**

**Speaker**

Dr Aditya Pathak

14:40–15:00 **Study of heavy b and c baryons at LHCb**

**Speaker**

Igor Gorelov

15:00–15:20 **Recent result of baryon time-like form factors at BESIII**

**Speaker**

Weimin Song

15:20–15:40

**Studying electron-positron annihilation into  $K_S^0 K_S^0 \pi^0$  and  $K_S^0 K_S^0 \pi^+ \pi^-$  with the CMD-3 detector**

**Speaker**

Artem Uskov

15:40–16:00 **Recent results on exotic (hidden-charm) hadrons from LHCb**

**Speaker**

Chen Chen

16:00

16:30

### Precision SM Measurements: Parallel 2

**Session** | **Location:** Online only | **Convener:** Reinhild Peters

16:30–16:50

**Measurements of the Higgs Yukawa couplings with Run 2 data collected by the CMS experiment**

**Speaker**

Clara Ramon Alvarez

16:50–17:06

**Higgs boson measurements in its decays into bosons with the ATLAS experiment**

**Speaker**

Yuji Enari

17:06–17:22

**Measurements of Higgs boson couplings and differential cross-sections**

**Speaker**

Prafulla Saha

17:22-17:38

**Combined Higgs boson measurements and their interpretations in Effective Field Theories and new physics models with the ATLAS experiment**

**Speaker**

Hannes Mildner

17:38-17:54

**Searches for double Higgs production**

**Speaker**

Davide Zuolo

17:54-18:10

**Search for rare and lepton flavor violating decays of the Higgs boson with the ATLAS detector**

**Speaker**

Hanna Maria Borecka-Bielska

18:10

# Wednesday 12 January

09:00

## Precision SM Measurements: Parallel 3

Session | Location: Online only | Convener: Gregory Soyez

09:00–09:20 **Jet measurements in CMS**

**Speakers**

Daniel Savoiu, Daniel Savoiu

09:20–09:40

**Determination of proton parton distribution functions using ATLAS data**

**Speaker**

Evelin Meoni

09:40–10:00

**Measurement of 1-jettiness in the Breit Frame at high  $Q^2$**

**Speaker**

Henry Klest

10:00–10:20

**Azimuthal correlations in photoproduction and deep inelastic ep scattering at HERA**

**Speaker**

Dhevan Raja Gangadharan

10:20–10:40

**Measurement of lepton-jet correlation in deep-inelastic scattering with the H1 detector using machine learning for unfolding**

**Speaker**

Ben Nachman

10:40–11:00

**Study of pPb and PbPb collisions in the forward direction**

**Speaker**

Hengne Li

11:00

11:20

## Precision SM Measurements: Parallel 4

Session | Location: Online only | Convener: Oldrich Kepka

11:20–11:40

**Precise  $W$  mass measurement at LHCb**

**Speaker**

William Barter

11:40–12:00

**Multiboson measurements at CMS**

**Speaker**

Alexandre Hakimi

12:00–12:20

**Measurements of multi-boson production including vector-boson scattering at ATLAS**

**Speaker**  
Junjie Zhu

12:20–12:40

**Next-to SV resummed Drell-Yan cross section beyond leading-logarithm**

**Speaker**  
Aparna Sankar

12:40–13:00

**Vector boson associated with jets in CMS [Postponed]**

**Speaker**  
Meena Meena

13:00



# Thursday 13 January

09:00

## Precision SM Measurements: 3

**Session** | **Location:** Online only | **Convener:** Florian Urs Bernlochner

09:00–09:30 **Hadron physics : experimental review (spectroscopy and exotics)**

**Speaker**

Umberto Tamponi

09:30–10:00 **Hadron physics: theory**

**Speaker**

Sasa Prelovsek

10:00–10:30 **Heavy ion physics: experimental review**

**Speaker**

Giuseppe Bruno

10:30