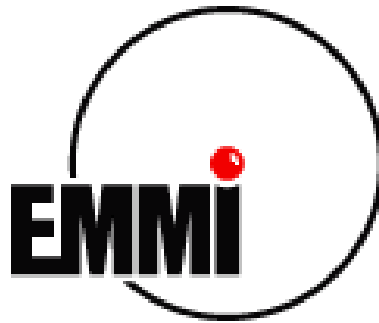


# Forward Physics in ALICE 3



## Report of Contributions

Contribution ID: 1

Type: **not specified**

## EMMI welcome

*Wednesday 18 October 2023 09:00 (10 minutes)*

**Primary author:** EWERZ, Carlo (Heidelberg University (DE))

**Presenter:** EWERZ, Carlo (Heidelberg University (DE))

**Session Classification:** Session I

Contribution ID: 2

Type: **not specified**

# **The discovery of the Odderon by D0-TOTEM and forward physics results by TOTEM**

*Wednesday 18 October 2023 09:15 (30 minutes)*

**Presenter:** NEMES, Frigyes Janos (CERN (also at Wigner RCP Budapest, Hungary))

**Session Classification:** Session I

Contribution ID: 3

Type: **not specified**

## Dip structure in proton elastic scattering

*Wednesday 18 October 2023 09:45 (30 minutes)*

**Presenter:** SZANYI, Istvan (Eötvös University, Wigner RCP, MATE KRC)

**Session Classification:** Session I

Contribution ID: 4

Type: **not specified**

## **Status and prospects of the PPS programme at CMS**

*Wednesday 18 October 2023 10:15 (30 minutes)*

**Presenter:** SHCHELINA, Ksenia (CERN)

**Session Classification:** Session I

Contribution ID: 5

Type: **not specified**

## Physics with forward protons at LHC - high- $\beta^*$ case

*Wednesday 18 October 2023 10:45 (30 minutes)*

**Presenter:** STASZEWSKI, Rafał (IFJ PAN Cracow (PL))

**Session Classification:** Session I

Contribution ID: 6

Type: **not specified**

## **Dip structures in proton diffractive dissociation**

**Presenter:** JENKOVSKY, Laszlo (National Academy of Sciences of Ukraine)

**Session Classification:** Session I

Contribution ID: 7

Type: **not specified**

## **Heavy-ion processes associated with measurements of forward protons and neutrons**

**Presenter:** KLUSEK-GAWENDA, Mariola (IFJ PAS)

**Session Classification:** Session I



Contribution ID: 8

Type: **not specified**

## Dip structures in proton diffractive dissociation

*Wednesday 18 October 2023 11:45 (30 minutes)*

**Presenter:** JENKOVSKY, Laszlo (National Academy of Sciences of Ukraine)

**Session Classification:** Session II

Contribution ID: 9

Type: **not specified**

## **Heavy-ion processes associated with measurements of forward protons and neutrons**

*Wednesday 18 October 2023 12:15 (30 minutes)*

**Presenter:** KŁUSEK-GAWENDA, Mariola (IFJ PAS)

**Session Classification:** Session II

Contribution ID: **10**

Type: **not specified**

# Forward physics observables in Cosmic Ray Physics

*Wednesday 18 October 2023 13:45 (30 minutes)*

**Presenter:** PIEROG, Tanguy

**Session Classification:** Session III

Contribution ID: **11**

Type: **not specified**

## **Status of phenomenological studies of GPD's**

*Wednesday 18 October 2023 14:15 (30 minutes)*

**Presenter:** SZNAJDER, Paweł (National Centre for Nuclear Research)

**Session Classification:** Session III

Contribution ID: 12

Type: **not specified**

## Far-forward physics and instrumentation at EIC

*Wednesday 18 October 2023 14:45 (30 minutes)*

**Presenter:** FURLETOVA, Yulia (Jefferson Lab)

**Session Classification:** Session III

Contribution ID: 13

Type: **not specified**

## Vector meson photoproduction

*Wednesday 18 October 2023 15:30 (30 minutes)*

**Presenter:** SCHÄFER, Wolfgang (IFJ PAN Cracow)

**Session Classification:** Session IV

Contribution ID: 14

Type: **not specified**

## **Studies for vector meson photoproduction at the EIC**

*Wednesday 18 October 2023 16:00 (30 minutes)*

**Presenter:** TU, Zhoudunming (BNL)

**Session Classification:** Session IV

Contribution ID: 15

Type: **not specified**

## Registration

*Wednesday 18 October 2023 16:30 (1 hour)*

**Presenter:** SCHICKER, Rainer (Heidelberg University (DE))

**Session Classification:** Session IV



Contribution ID: 16

Type: **not specified**

## **Exclusive soft reactions in high-energy pp-collisions**

*Thursday 19 October 2023 09:00 (30 minutes)*

**Presenter:** LEBIEDOWICZ, Piotr (IFJ PAN Cracow)

**Session Classification:** Session V

Contribution ID: 17

Type: **not specified**

## **Central exclusive production of selected charmonia in the light-front $k_T$ -factorization approach**

*Thursday 19 October 2023 09:30 (30 minutes)*

**Presenter:** BABIARZ, Isabela (IFJ PAN Cracow)

**Session Classification:** Session V

Contribution ID: **18**

Type: **not specified**

## **Exclusive Jet production using ATLAS and AFP data**

*Thursday 19 October 2023 10:00 (30 minutes)*

**Presenter:** ERLAND, Paula (IFJ PAN Cracow)

**Session Classification:** Session V

Contribution ID: 19

Type: **not specified**

## Single and double photon bremsstrahlung in forward direction in pp to pp-collisions

*Thursday 19 October 2023 11:00 (30 minutes)*

**Presenter:** SZCZUREK, Antoni (IFJ PAN Cracow)

**Session Classification:** Session VI

Contribution ID: 20

Type: **not specified**

## Diffraction bremsstrahlung with ALICE 3

*Thursday 19 October 2023 11:30 (30 minutes)*

**Presenter:** CHWASTOWSKI, Janusz (Polish Academy of Sciences (PL))

**Session Classification:** Session VI

Contribution ID: 21

Type: **not specified**

## **CMS+TOTEM results on central exclusive production (non-resonant processes)**

*Thursday 19 October 2023 13:30 (30 minutes)*

**Presenter:** SIKLÉR, Ferenc (Wigner RCP, Budapest (HU))

**Session Classification:** Session VII

Contribution ID: 22

Type: **not specified**

## **Status of central production studies in pp collisions with ALICE**

*Thursday 19 October 2023 14:00 (30 minutes)*

**Presenter:** SCHICKER, Rainer (Heidelberg University (DE))

**Session Classification:** Session VII

Contribution ID: 23

Type: **not specified**

## **Physics with tagged forward protons in proton-proton collisions at RHIC**

*Thursday 19 October 2023 14:30 (30 minutes)*

**Presenter:** GURYN, Wlodek

**Session Classification:** Session VII



Contribution ID: 24

Type: **not specified**

## LHC $\beta^*$ -options for ALICE 3

*Thursday 19 October 2023 15:30 (30 minutes)*

**Presenter:** HERMES, Pascal (CERN)

**Session Classification:** Session VIII

Contribution ID: 25

Type: **not specified**

## **Studies of forward proton trajectories in vicinity of IP2 for the HL-LHC optics**

*Thursday 19 October 2023 16:00 (20 minutes)*

**Presenter:** PRATEL, Pragati (IFJ PAN Cracow)

**Session Classification:** Session VIII

Contribution ID: 26

Type: **not specified**

## **Lessons from ATLAS Roman Pot Operation and Challenges at the HL-LHC Era**

*Thursday 19 October 2023 16:20 (20 minutes)*

**Presenter:** TRZEBINSKI, Maciej (Polish Academy of Sciences (PL))

**Session Classification:** Session VIII

Contribution ID: 27

Type: **not specified**

## **CMS forward hadron spectrometer**

*Thursday 19 October 2023 16:40 (30 minutes)*

**Presenter:** ALBROW, Mike (FNAL)

**Session Classification:** Session VIII

Contribution ID: **28**

Type: **not specified**

## **Different versions of soft - photon theorems**

*Friday 20 October 2023 09:00 (30 minutes)*

**Presenter:** NACHTMANN, Otto

**Session Classification:** Session IX

Contribution ID: 29

Type: **not specified**

## **The LBK theorem: theory and phenomenology**

*Friday 20 October 2023 09:30 (30 minutes)*

**Presenter:** BONOCORE, Domenico (TU München)

**Session Classification:** Session IX

Contribution ID: **30**

Type: **not specified**

## Discussion

*Friday 20 October 2023 10:00 (30 minutes)*

**Session Classification:** Session IX

Contribution ID: 31

Type: **not specified**

## **Study of proton structure using $c\bar{c}$ correlation in ultraperipheral pA collisions**

*Friday 20 October 2023 11:00 (30 minutes)*

**Presenter:** LINEK, Barbara (IFJ PAN Cracow)

**Session Classification:** Session X



Contribution ID: 32

Type: **not specified**

## **Measurement of tau-lepton pair production from photon-photon fusion in UPC with the ATLAS detector**

*Friday 20 October 2023 11:30 (30 minutes)*

**Presenter:** MAJ, Klaudia (AGH University of Krakow (PL))

**Session Classification:** Session X

Contribution ID: 33

Type: **not specified**

## **Top quark pair production in exclusive processes at the LHC**

*Friday 20 October 2023 12:00 (30 minutes)*

**Presenter:** NETO, Daniel Ernani Martins (IFJ PAN Cracow)

**Session Classification:** Session X

Contribution ID: 34

Type: **not specified**

## **Probing gluon saturation in heavy-ion collisions at forward rapidities**

*Friday 20 October 2023 13:30 (30 minutes)*

**Presenter:** WOLSCHIN, Georg (Theo, Inst. Heidelberg)

**Session Classification:** Session XI

Contribution ID: 35

Type: **not specified**

## **Probing Geometry of Ion-Ion Collisions with Roman Pot Detectors**

*Friday 20 October 2023 14:30 (20 minutes)*

**Presenter:** STASZEWSKI, Rafał (IFJ PAN Cracow (PL))

**Session Classification:** Session XI

Contribution ID: 36

Type: **not specified**

## **Search for evidence of the baryon junction in photonuclear processes and heavy-ion collisions**

*Friday 20 October 2023 14:00 (30 minutes)*

**Presenter:** TSANG, Chun Yuen (Kent State University)

**Session Classification:** Session XI

Contribution ID: 37

Type: **not specified**

## **How gluon saturation influences the topology of the QCD vacuum**

*Friday 20 October 2023 14:50 (30 minutes)*

**Presenter:** VENUGOPALAN, Raju

**Session Classification:** Session XI

Contribution ID: **38**

Type: **not specified**

## Discussion, closing of workshop

*Friday 20 October 2023 15:20 (40 minutes)*

**Presenter:** SCHICKER, Rainer (Heidelberg University (DE))

**Session Classification:** Session XI

Contribution ID: 39

Type: **not specified**

## Introduction to the workshop

*Wednesday 18 October 2023 09:10 (5 minutes)*

**Presenter:** SCHICKER, Rainer (Heidelberg University (DE))

**Session Classification:** Session I