

**LHC Forward Physics meeting**

**Report of Contributions**

Contribution ID: 1

Type: **not specified**

## Welcome - News

*Monday 24 October 2022 10:00 (5 minutes)*

**Presenters:** ROYON, Christophe (The University of Kansas (US)); NEWMAN, Paul Richard (University of Birmingham (GB))

Contribution ID: 2

Type: **not specified**

# Measurement of the total cross section and $\rho$ -parameter from elastic scattering at $\sqrt{s}=13$ TeV in ATLAS

*Tuesday 25 October 2022 09:30 (30 minutes)*

**Presenter:** CAFORIO, Davide (Justus-Liebig-Universitaet Giessen (DE))

Contribution ID: 3

Type: **not specified**

## Determination of the rho parameter

*Tuesday 25 October 2022 10:00 (25 minutes)*

**Presenters:** LANDSHOFF, Peter (University of Cambridge); LANDSHOFF, Peter (Department of Physics)

Contribution ID: 4

Type: **not specified**

## **D0-TOTEM Odderon observation: answers to questions & objections**

*Tuesday 25 October 2022 11:20 (30 minutes)*

**Presenters:** OSTERBERG, Kenneth (University of Helsinki); OSTERBERG, Kenneth (Helsinki Institute of Physics (FI))

Contribution ID: 5

Type: **not specified**

## **Scaling properties of elastic proton-proton scattering at LHC energies**

*Tuesday 25 October 2022 11:50 (25 minutes)*

**Presenter:** BALDENEGRO BARRERA, Cristian (Laboratoire Leprince-Ringuet)

Contribution ID: 6

Type: **not specified**

## **Discussion about elastic scattering, total cross section, rho measurement and the odderon**

*Tuesday 25 October 2022 12:15 (45 minutes)*

Contribution ID: 7

Type: **not specified**

## Prospects for PPS at high luminosity LHC

*Tuesday 25 October 2022 14:15 (30 minutes)*

**Presenters:** DEILE, Mario (CERN); DEILE, Mario (CERN)



Contribution ID: 8

Type: **not specified**

## Run 4 plans from ATLAS

Contribution ID: 9

Type: **not specified**

## Exclusive pion pair production at $\sqrt{s} = 7$ TeV

*Monday 24 October 2022 10:05 (25 minutes)*

**Presenters:** BUSSEY, Peter John (University of Glasgow (GB)); BUSSEY, Peter John (University of Glasgow (GB))

Contribution ID: 10

Type: **not specified**

## **Exclusive central production of $\pi^+$ $\pi^-$ and $p$ $\bar{p}$ : distributions and questions**

*Monday 24 October 2022 10:30 (25 minutes)*

**Presenter:** RIUTIN, Roman

Contribution ID: 11

Type: **not specified**

## **Automated generation of exclusive photon-photon processes in ultraperipheral proton and nuclear collisions (gamma-UPC Monte Carlo event generator)**

*Monday 24 October 2022 12:10 (25 minutes)*

**Presenter:** D'ENTERRIA, David (CERN)

Contribution ID: 12

Type: **not specified**

## Exclusive vector meson production

*Monday 24 October 2022 11:45 (25 minutes)*

**Presenters:** PENTTALA, Jani; PENTTALA, Jani (University of Jyväskylä (FI))

Contribution ID: 13

Type: **not specified**

## **Discussion: low mass diffraction, photon exchanges**

*Monday 24 October 2022 13:00 (20 minutes)*

Contribution ID: 14

Type: **not specified**

## Jet gap jet events

*Monday 24 October 2022 14:30 (25 minutes)*

**Presenter:** ROYON, Christophe (The University of Kansas (US))

Contribution ID: 15

Type: **not specified**

## **New observables for Mueller Navelet jet production at the LHC**

*Monday 24 October 2022 14:55 (25 minutes)*

**Presenter:** KAMPSHOFF, Mats (The University of Kansas (US))



Contribution ID: **16**

Type: **not specified**

## **The FASER project**

*Tuesday 25 October 2022 16:10 (30 minutes)*

**Presenter:** JAKOBSEN, Sune (CERN)

Contribution ID: 17

Type: **not specified**

## The Forward Physics Facility project

*Monday 24 October 2022 12:35 (25 minutes)*

**Presenter:** Dr HARLAND-LANG, Lucian (University of Oxford)

Contribution ID: **18**

Type: **not specified**

## Recent results from PPS

*Monday 24 October 2022 15:20 (30 minutes)*

**Presenter:** ROYON, Christophe (The University of Kansas (US))

Contribution ID: **19**

Type: **not specified**

## **AFP present and future running**

*Tuesday 25 October 2022 14:45 (30 minutes)*

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

Contribution ID: 20

Type: **not specified**

## Massive gravitons exchange in light-by-light scattering in PbPb, simulations in ATLAS

*Monday 24 October 2022 16:45 (25 minutes)*

**Presenters:** AIT TAMLIHAT, Malak (Mohammed V University); AIT TAMLIHAT, Malak (Universite Mohammed V (MA)); AIT TAMLIHAT, Malak

Contribution ID: 21

Type: **not specified**

## Tagging protons in pO interactions

*Monday 24 October 2022 17:35 (10 minutes)*

**Presenter:** PITT, Michael (CERN)

Contribution ID: 22

Type: **not specified**

## **Discussion: BFKL and low x, diffraction at high lumi**

*Monday 24 October 2022 17:45 (40 minutes)*

Contribution ID: 23

Type: **not specified**

## The ALICE FOCAL project

*Tuesday 25 October 2022 16:40 (30 minutes)*

**Presenters:** RASANEN, Sami Sakari (University of Jyvaskyla (FI)); RASANEN, Sami Sakari (Helsinki Institute of Physics (FI))



Contribution ID: 24

Type: **not specified**

## **Discussion: future projects, high lumi LHC**

*Tuesday 25 October 2022 17:35 (30 minutes)*

Contribution ID: 25

Type: **not specified**

## Conclusion of workshop

*Tuesday 25 October 2022 18:05 (15 minutes)*

**Presenters:** ROYON, Christophe (The University of Kansas (US)); NEWMAN, Paul Richard (University of Birmingham (GB))

Contribution ID: 26

Type: **not specified**

## **Precision studies of semi-inclusive Higgs production at new-generation forward facilities**

*Tuesday 25 October 2022 15:15 (25 minutes)*

**Presenters:** CELIBERTO, Francesco Giovanni (Università della Calabria and INFN Cosenza (Italy)); Dr CELIBERTO, Francesco Giovanni (ECT\*/FBK Trento & INFN-TIFPA)

Contribution ID: 27

Type: **not specified**

## **Inclusive diffraction at the LHC**

*Monday 24 October 2022 16:20 (25 minutes)*

**Presenter:** PITT, Michael (CERN)

Contribution ID: 28

Type: **not specified**

## **ALICE measurements of forward neutrons in ultraperipheral Pb–Pb collisions**

*Monday 24 October 2022 10:55 (25 minutes)*

**Presenter:** PSHENICHNOV, Igor (ALICE Collaboration)

Contribution ID: 29

Type: **not specified**

## SND@LHC

*Monday 24 October 2022 17:10 (25 minutes)*

**Presenters:** DI CRESCENZO, Antonia; DI CRESCENZO, Antonia (CERN); LANTWIN, Oliver (LAPP)

Contribution ID: **30**

Type: **not specified**

## **ALFA-TOTEM difference in the total cross section.**

*Tuesday 25 October 2022 10:25 (25 minutes)*

**Presenter:** GRAFSTROM, Per Lars Gunnar (Universita e INFN, Bologna (IT))

Contribution ID: **31**

Type: **not specified**

## **New observables for Mueller Navelet jet production at the LHC**

*Tuesday 25 October 2022 17:10 (25 minutes)*

**Presenter:** KAMPSHOFF, Mats (The University of Kansas (US))