

LHC Forward Physics December 2024 Workshop

Report of Contributions

Contribution ID: 1

Type: **not specified**

Status of ATLAS ZDC detector

Thursday 12 December 2024 10:55 (25 minutes)

Presenter: COLE, Brian Andrew (Columbia University (US))

Contribution ID: 2

Type: **not specified**

Theory overview: neutrino DIS at LHC

Thursday 12 December 2024 16:20 (30 minutes)

Presenter: ROJO CHACON, Juan (Nikhef National institute for subatomic physics (NL))

Contribution ID: 3

Type: **not specified**

Welcome

Thursday 12 December 2024 09:30 (5 minutes)

Presenters: ROYON, Christophe (The University of Kansas (US)); LIU, Jesse (University of Cambridge); CERNY, Karel (Palacky University (CZ)); SANTANA RANGEL, Murilo (Federal University of Rio de Janeiro (BR))

Contribution ID: 4

Type: **not specified**

Saturation effects in single-inclusive heavy hadron production

Thursday 12 December 2024 14:55 (30 minutes)

Presenter: Mr VIERROS, Jarno Johannes (The University of Kansas (US))

Contribution ID: 5

Type: **not specified**

Saturation effects in vector meson production

Thursday 12 December 2024 14:30 (25 minutes)

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

Contribution ID: 6

Type: **not specified**

Status of CMS ZDC detector and data taking

Thursday 12 December 2024 11:45 (25 minutes)

Presenter: POPESCU, Sorina (The University of Kansas (US))

Contribution ID: 7

Type: **not specified**

Tau g-2 with hadron dissociation and soft survival in Superchic

Friday 13 December 2024 11:00 (30 minutes)

Presenter: Dr HARLAND-LANG, Lucian (University College London)

Contribution ID: 8

Type: **not specified**

Searching for saturation in forward dijet production at the LHC

Thursday 12 December 2024 16:50 (30 minutes)

Presenter: KUTAK, Krzysztof (Instytut Fizyki Jadrowej Polskiej Akademii Nauk)

Contribution ID: 9

Type: **not specified**

Zero-bias new particle searches and other machine learning applications for UPCs

Friday 13 December 2024 14:25 (30 minutes)

Presenter: RAGONI, Simone (Creighton University (US))

Contribution ID: **10**

Type: **not specified**

Discussion

Thursday 12 December 2024 12:10 (25 minutes)

Contribution ID: **11**

Type: **not specified**

On the "nucleon radii"

Friday 13 December 2024 09:00 (30 minutes)

Presenter: PETROV, Vladimir (Joint Institute for Nuclear Research (JINR))

Contribution ID: 12

Type: **not specified**

Dimuon and ditau via photon collisions at NLO in QED with gamma-UPC

Friday 13 December 2024 11:30 (30 minutes)

Presenters: D'ENTERRIA, David (CERN); SHAO, Huasheng (Centre National de la Recherche Scientifique (FR))

Contribution ID: 13

Type: **not specified**

Diffraction calculation using CGC NLO (tbc)

Presenter: KAMPSHOFF, Mats (The University of Kansas)

Contribution ID: 14

Type: **not specified**

Probing optimal measurements of the electromagnetic dipole moments of the τ lepton

Friday 13 December 2024 10:00 (30 minutes)

Presenter: BHIDE, Kartik Deepak (University of Freiburg (DE))

Contribution ID: 15

Type: **not specified**

Special runs in 2025

Friday 13 December 2024 09:30 (30 minutes)

Presenter: PITT, Michael (CERN)

Contribution ID: **16**

Type: **not specified**

PPS data taking and high luminosity plans

Contribution ID: 17

Type: **not specified**

AFP results and prospects

Thursday 12 December 2024 09:35 (25 minutes)

Presenter: LEWICKI, Maciej Piotr (Polish Academy of Sciences (PL))

Contribution ID: **18**

Type: **not specified**

PPS results and prospects

Thursday 12 December 2024 10:00 (25 minutes)

Presenter: PITT, Michael (CERN)

Contribution ID: **19**

Type: **not specified**

Discussion

Thursday 12 December 2024 17:20 (40 minutes)

Contribution ID: 20

Type: **not specified**

Discussion

Friday 13 December 2024 12:00 (30 minutes)

Contribution ID: **21**

Type: **not specified**

Discussion

Friday 13 December 2024 15:20 (30 minutes)

Contribution ID: 22

Type: **not specified**

Workshop conclusion

Friday 13 December 2024 15:50 (10 minutes)

Presenters: ROYON, Christophe (The University of Kansas (US)); LIU, Jesse (University of Cambridge); CERNY, Karel (Palacky University (CZ)); SANTANA RANGEL, Murilo (Federal University of Rio de Janeiro (BR))

Contribution ID: 23

Type: **not specified**

CMS data taking for HIN and prospects

Thursday 12 December 2024 11:20 (25 minutes)

Presenter: Dr KRINTIRAS, Georgios (The University of Kansas (US))

Contribution ID: 24

Type: **not specified**

D0 production in UPC PbPb collisions at 5.36 TeV measured in OnXn events with rapidity gap

Friday 13 December 2024 14:00 (25 minutes)

Presenters: MC GINN, Christopher (Massachusetts Inst. of Technology (US)); Dr INNOCENTI, Gian Michele (Massachusetts Inst. of Technology (US))

Contribution ID: 25

Type: **not specified**

Recent TOTEM results

Thursday 12 December 2024 14:00 (30 minutes)

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

Contribution ID: 26

Type: **not specified**

Predictions for UPC open charm

Thursday 12 December 2024 15:50 (30 minutes)

Presenter: STASTO, Anna Maria (Pennsylvania State University (US))

Contribution ID: 27

Type: **not specified**

LHCb collision samples (heavy-ion and fixed target)

Friday 13 December 2024 14:55 (25 minutes)

Presenter: DI NEZZA, Pasquale (INFN e Laboratori Nazionali di Frascati (IT))