

# **Physics with high-luminosity proton-nucleus collisions at the LHC - Workshop**

## **Report of Contributions**

Contribution ID: 1

Type: **not specified**

# Proton-nucleus collisions at the LHC: The machine point-of-view

*Thursday 4 July 2024 09:25 (20 minutes)*

**Presenter:** Dr BRUCE, Roderik (CERN)

Contribution ID: 2

Type: **not specified**

## Importance of pPb HL LHC data for nPDF fits

*Thursday 4 July 2024 09:45 (25 minutes)*

**Presenters:** SCHIENBEIN, Ingo; SCHIENBEIN, Ingo; SCHIENBEIN, Ingo (Universite Grenoble Alpes)

Contribution ID: 3

Type: **not specified**

## **Double- and triple-parton scattering in p-A collisions**

*Thursday 4 July 2024 10:10 (20 minutes)*

**Presenters:** RINALDI, Matteo; RINALDI, Matteo

Contribution ID: 4

Type: **not specified**

## Coffee break

Contribution ID: 5

Type: **not specified**

## **CMS studies and plans in hadronic proton-nucleus collisions at the LHC**

*Thursday 4 July 2024 11:00 (25 minutes)*

**Presenter:** MC GINN, Christopher (Massachusetts Inst. of Technology (US))

Contribution ID: 6

Type: **not specified**

## **ATLAS studies and plans in hadronic proton-nucleus collisions at the LHC**

*Thursday 4 July 2024 11:25 (25 minutes)*

**Presenters:** LONGO, Riccardo; LONGO, Riccardo (Univ. Illinois at Urbana Champaign (US))

Contribution ID: 7

Type: **not specified**

# **ALICE studies and plans in hadronic proton-nucleus collisions at the LHC**

*Thursday 4 July 2024 11:50 (25 minutes)*

**Presenter:** JONAS, Florian (University of California Berkeley (US))



Contribution ID: 8

Type: **not specified**

## **LHCb studies and plans in hadronic proton-nucleus collisions at the LHC**

*Friday 5 July 2024 09:00 (25 minutes)*

**Presenters:** DA SILVA, Cesar Luiz (Los Alamos National Laboratory (US)); Dr DA SILVA, Cesar Luiz (Los Alamos National Lab)

Contribution ID: 9

Type: **not specified**

## **Exclusive quarkonium photoproduction in pPb collisions at the HL-LHC**

*Thursday 4 July 2024 13:40 (25 minutes)*

**Presenter:** FLETT, Chris (IJCLab)

Contribution ID: **10**

Type: **not specified**

## **Photon-photon physics in high-luminosity pPb collisions at the HL LHC**

*Thursday 4 July 2024 14:05 (20 minutes)*

**Presenters:** HARLAND-LANG, Lucian (Durham University); Dr HARLAND-LANG, Lucian (University College London)

Contribution ID: 11

Type: **not specified**

## **Inclusive quarkonium photoproduction in pPb collisions at the HL LHC**

*Thursday 4 July 2024 14:25 (20 minutes)*

**Presenter:** LYNCH, Kate (University College Dublin (IE))

Contribution ID: 12

Type: **not specified**

## Learning on exotic (XYZ) systems from pPb collisions at the HL LHC

*Thursday 4 July 2024 12:15 (25 minutes)*

**Presenters:** GONZALEZ FERREIRO, ELENA (Universidade de Santiago de Compostela (ES)); FERREIRO, Elena Gonzalez

Contribution ID: 13

Type: **not specified**

## **Impact of p-Pb (p-O) measurements at LHCf for ultra-high energy cosmic rays physics**

*Friday 5 July 2024 09:50 (25 minutes)*

**Presenters:** BONECHI, Lorenzo (Istituto Nazionale di Fisica Nucleare (INFN)); BONECHI, Lorenzo (INFN Section of Florence); BONECHI, Lorenzo (Universita e INFN, Firenze (IT))

Contribution ID: 14

Type: **not specified**

## **Impact of collider p–A (p–O) measurements for ultra-high energy cosmic rays physics**

*Friday 5 July 2024 09:25 (25 minutes)*

**Presenter:** Dr DEMBINSKI, Hans Peter (TU Dortmund)

Contribution ID: 15

Type: **not specified**

## **Beyond the Standard Model opportunities in p-A collisions at the LHC**

*Friday 5 July 2024 15:35 (25 minutes)*

**Presenter:** Dr FICHET, sylvain



Contribution ID: 16

Type: **not specified**

## **CMS studies and plans in photon-induced proton-nucleus collisions at the LHC**

*Friday 5 July 2024 11:15 (25 minutes)*

**Presenter:** INNOCENTI, Gian Michele (Massachusetts Inst. of Technology (US))

Contribution ID: 17

Type: **not specified**

## **ATLAS studies and plans in photon-induced proton-nucleus collisions at the LHC**

*Friday 5 July 2024 11:40 (25 minutes)*

**Presenter:** DAS, Sruthy Jyothi (University of Colorado Boulder (US))

Contribution ID: **18**

Type: **not specified**

## **ALICE studies and plans in photon-induced proton-nucleus collisions at the LHC**

*Friday 5 July 2024 12:05 (25 minutes)*

**Presenter:** TAPIA TAKAKI, Daniel (University of Kansas)

Contribution ID: 19

Type: **not specified**

## **LHCb studies and plans in photon-induced proton-nucleus collisions at the LHC**

*Friday 5 July 2024 12:30 (25 minutes)*

**Presenters:** BRANDENBURG, James Daniel (University of Florida (US)); BRANDENBURG, James Daniel (Ohio State University (US))

Contribution ID: 20

Type: **not specified**

## Proton-nucleus collisions with PYTHIA8/Angantyr

*Friday 5 July 2024 10:15 (25 minutes)*

**Presenters:** BIERLICH, Christian; BIERLICH, Christian (Lund University (SE))

Contribution ID: 21

Type: **not specified**

## **Complementarities between the HL-LHC pPb and fixed-target runs and EIC**

*Friday 5 July 2024 14:00 (25 minutes)*

**Presenter:** VAN HULSE, Charlotte (Universidade de Santiago de Compostela (ES))

Contribution ID: 22

Type: **not specified**

## Small-x QCD and gluon saturation physics

*Friday 5 July 2024 14:45 (25 minutes)*

**Presenters:** KOTKO, Piotr; KOTKO, Piotr (AGH UST)

Contribution ID: 23

Type: **not specified**

## Parton collectivity in p-A collisions

*Friday 5 July 2024 15:10 (25 minutes)*

**Presenter:** SCHENKE, Bjoern (Brookhaven National Lab)



Contribution ID: 24

Type: **not specified**

## **pA physics with tagged protons at the LHC**

*Thursday 4 July 2024 14:45 (20 minutes)*

**Presenter:** PITT, Michael (The University of Kansas (US))

Contribution ID: 25

Type: **not specified**

## Toroidal Vorticity at LHC and EIC

*Friday 5 July 2024 14:25 (20 minutes)*

**Presenter:** STEFANIAK, Maria Zofia (Ohio State University (US))

Contribution ID: 26

Type: **not specified**

## **pA collisions with neutron tagging in the ZDCs**

*Thursday 4 July 2024 15:05 (20 minutes)*

**Presenters:** STRIKMAN, Mark; STRIKMAN, Mark (Penn State University); STRIKMAN, Mark (Pennsylvania State University (US))

Contribution ID: 27

Type: **not specified**

## **Hydrodynamics application to proton-nucleus collisions**

*Friday 5 July 2024 10:40 (15 minutes)*

**Presenter:** Prof. SCHLICHTING, Soeren (Universität Bielefeld)

Contribution ID: 28

Type: **not specified**

## Introduction to the workshop

*Thursday 4 July 2024 09:15 (10 minutes)*

**Presenters:** D'ENTERRIA, David (CERN); LANSBERG, Jean-Philippe (Université Paris-Saclay (FR))