

# **Polish Particle and Nuclear Theory Summit (2PiNTS)**



## **Report of Contributions**

Contribution ID: 2

Type: **not specified**

# **Tolga Altinoluk - Single inclusive particle production in pA collisions at forward rapidities at NLO**

*Wednesday, 22 November 2023 13:40 (30 minutes)*

**Session Classification:** Nuclear

**Track Classification:** Nuclear Physics

Contribution ID: 3

Type: **not specified**

## **Piotr Korcyl - Progress in small-x evolution using the JIMWLK equation with kinematical constraint**

*Wednesday, 22 November 2023 14:10 (30 minutes)*

**Presenters:** KORCYL, Piotr (Institute of Physics, Jagiellonian University); KORCYL, Krzysztof (Institute of Nuclear Physics)

**Session Classification:** Nuclear

**Track Classification:** Nuclear Physics

Contribution ID: 4

Type: **not specified**

## **Guillaume Beuf - Back-to-back DIS dijets at next-eikonal accuracy: from CGC to TMDs**

*Wednesday, 22 November 2023 14:40 (30 minutes)*

**Presenter:** BEUF, Guillaume (National Centre for Nuclear Research (NCBJ), Warsaw)

**Session Classification:** Nuclear

**Track Classification:** Nuclear Physics

Contribution ID: 5

Type: **not specified**

## **Piotr Kotko - New action-based method for efficient computation of multi-leg scattering amplitudes in Yang-Mills theory**

*Wednesday, 22 November 2023 15:40 (30 minutes)*

**Presenter:** KOTKO, Piotr (Jagiellonian University)

**Session Classification:** Particle

**Track Classification:** Particle Physics

Contribution ID: 6

Type: **not specified**

## **Rene Poncelet - High precision prediction for multi-scale processes at the LHC**

*Wednesday, 22 November 2023 16:10 (30 minutes)*

**Presenter:** PONCELET, Rene (IFJ PAN)

**Session Classification:** Particle

**Track Classification:** Particle Physics

Contribution ID: 7

Type: **not specified**

# Mikołaj Misiak - Precision Theory for Heavy Flavour Physics

*Wednesday, 22 November 2023 16:40 (30 minutes)*

**Presenter:** MISIAK, Mikolaj (University of Warsaw and University of Karlsruhe)

**Session Classification:** Particle

**Track Classification:** Particle Physics

Contribution ID: 8

Type: **not specified**

## **James Whitehead - The KrkNLO method for parton shower matching**

*Wednesday, 22 November 2023 17:10 (30 minutes)*

**Presenter:** Dr WHITEHEAD, James (IFJ PAN)

**Session Classification:** Particle

**Track Classification:** Particle Physics



Contribution ID: 9

Type: **not specified**

## **David Blaschke - Towards a unified approach to quark-hadron matter**

*Friday, 24 November 2023 11:00 (30 minutes)*

**Presenter:** BLASCHKE, David (University of Wroclaw)

**Session Classification:** Particle

**Track Classification:** Particle Physics

Contribution ID: 10

Type: **not specified**

## **Wolfgang Schaefer - Coherent diffractive production of J/psi in gamma-nucleus collisions**

*Friday, 24 November 2023 11:30 (30 minutes)*

**Session Classification:** Particle

**Track Classification:** Particle Physics

Contribution ID: 11

Type: **not specified**

# Adam Bzowski - From conformal symmetry to Feynman diagrams

*Friday, 24 November 2023 16:40 (30 minutes)*

**Session Classification:** Particle

**Track Classification:** Particle Physics

Contribution ID: 12

Type: **not specified**

## **Kazuki Sakurai - Three-body Entanglement in Particle Decays**

*Friday, 24 November 2023 10:00 (30 minutes)*

**Session Classification:** Nuclear

**Track Classification:** Particle Physics

Contribution ID: 13

Type: **not specified**

## **Shiuli Chatterjee - Precision calculation of dark matter relic abundance produced out-of-kinetic equilibrium**

*Thursday, 23 November 2023 13:50 (20 minutes)*

**Presenter:** CHATTERJEE, Shiuli

**Session Classification:** ECR

**Track Classification:** Early Career Session

Contribution ID: 14

Type: **not specified**

## **Stéphane Delorme - Open quantum systems description of quarkonia dynamics in the Quark-Gluon Plasma**

*Thursday, 23 November 2023 14:10 (20 minutes)*

**Presenter:** DELORME, Stéphane (IFJ PAN)

**Session Classification:** ECR

**Track Classification:** Early Career Session

Contribution ID: 15

Type: **not specified**

## **Nasim Derakhshanian - Nuclear PDF determination using Markov Chain Monte Carlo methods**

*Thursday, 23 November 2023 14:50 (20 minutes)*

**Presenter:** DERAKHSHANIAN, Nasim (Institute of nuclear physics PAN)

**Session Classification:** ECR

**Track Classification:** Early Career Session

Contribution ID: 16

Type: **not specified**

## **Ishita Ganguli - Studying Gluon Saturation in Forward Photon+Jet Production in pp and pPb Collisions**

*Thursday, 23 November 2023 14:30 (20 minutes)*

**Session Classification:** ECR

**Track Classification:** Early Career Session



Contribution ID: 17

Type: **not specified**

## **Szymon Zieba - Status of neutrino masses and mixings**

*Thursday, 23 November 2023 13:30 (20 minutes)*

**Session Classification:** ECR

**Track Classification:** Early Career Session

Contribution ID: 18

Type: **not specified**

## **Biswajit Karmakar - Phenomenology of flavor symmetric scoto-seesaw**

*Thursday, 23 November 2023 15:40 (30 minutes)*

**Session Classification:** Particle

**Track Classification:** Particle Physics

Contribution ID: 19

Type: **not specified**

## **Enrico Maria Sessolo - Naturally small neutrino mass from asymptotic safety**

*Thursday, 23 November 2023 16:10 (30 minutes)*

**Presenter:** SESSOLO, Enrico

**Session Classification:** Particle

**Track Classification:** Particle Physics

Contribution ID: 20

Type: **not specified**

## **Janusz Gluza - A short talk on heavy neutrinos' CP effects**

*Thursday, 23 November 2023 17:10 (30 minutes)*

**Presenter:** GLUZA, Janusz

**Session Classification:** Particle

**Track Classification:** Particle Physics

Contribution ID: 21

Type: **not specified**

## **Kamila Kowalska - Vector-like extension of the Standard Model with extra scalars: global analysis and LHC study**

*Thursday, 23 November 2023 16:40 (30 minutes)*

**Presenters:** KOWALSKA, Kamila; KOWALSKA, Kamila (National Centre for Nuclear Reasearch)

**Session Classification:** Particle

**Track Classification:** Particle Physics

Contribution ID: 22

Type: **not specified**

## **Leszek Motyka - Twist decomposition of non-linear effects in Balitsky-Kovchegov evolution of proton structure functions**

*Friday, 24 November 2023 09:30 (30 minutes)*

**Session Classification:** Nuclear

**Track Classification:** Nuclear Physics

Contribution ID: 23

Type: **not specified**

## **Antoni Szczurek - Future of gamma-gamma → gamma gamma scattering in UPC of heavy ions**

*Thursday, 23 November 2023 11:00 (30 minutes)*

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

**Session Classification:** Particle

**Track Classification:** Nuclear Physics

Contribution ID: 24

Type: **not specified**

## **Stanisław Mrówczyński - The earliest phase of relativistic heavy-ion collisions**

*Thursday, 23 November 2023 09:30 (30 minutes)*

**Presenter:** MROWCZYNSKI, Stanislaw (National Centre for Nuclear Research, Warsaw, Poland)

**Session Classification:** Nuclear

**Track Classification:** Nuclear Physics



Contribution ID: 25

Type: **not specified**

## **Xin An - Relativistic hydrodynamic fluctuations**

*Friday, 24 November 2023 16:10 (30 minutes)*

**Session Classification:** Particle

**Track Classification:** Nuclear Physics

Contribution ID: 26

Type: **not specified**

## **Toni Mäkelä - Investigating the reach of LHC neutrino experiments**

*Friday, 24 November 2023 14:10 (20 minutes)*

**Presenter:** MÄKELÄ, Toni (NCBJ)

**Session Classification:** ECR

**Track Classification:** Early Career Session

Contribution ID: 27

Type: **not specified**

## **Pratixan Sarmah - Tuning Herwig7 with Lund String Model**

*Friday, 24 November 2023 14:30 (20 minutes)*

**Session Classification:** ECR

**Track Classification:** Early Career Session

Contribution ID: 28

Type: **not specified**

## **Grzegorz Ziarko - NLO for hybrid kT -factorization**

*Friday, 24 November 2023 13:30 (20 minutes)*

**Presenter:** Mr ZIARKO, Grzegorz (Instytut fizyki jądrowej PAN w Krakowie)

**Session Classification:** ECR

**Track Classification:** Early Career Session

Contribution ID: 29

Type: **not specified**

## **Ala Sztandera - High- $p_T$ processes in many-TeV ion collisions**

*Friday, 24 November 2023 13:50 (20 minutes)*

**Session Classification:** ECR

**Track Classification:** Early Career Session

Contribution ID: 30

Type: **not specified**

## **HIREN KAKKAD - Wilson line-based action for gluodynamics at classical and quantum level**

*Friday, 24 November 2023 14:50 (20 minutes)*

**Session Classification:** ECR

**Track Classification:** Early Career Session

Contribution ID: 31

Type: **not specified**

## **Wiesław Płaczek - Gamma Factory - multidisciplinary research tools based on LHC**

*Friday, 24 November 2023 15:40 (30 minutes)*

**Presenter:** PLACZEK, Wieslaw (Marian Smoluchowski Institute of Physics, Jagiellonian University)

**Session Classification:** Particle

**Track Classification:** Particle Physics

Contribution ID: 32

Type: **not specified**

## Wojciech Florkowski - Spin hydrodynamics

*Thursday, 23 November 2023 10:00 (30 minutes)*

**Presenter:** FLORKOWSKI, Wojciech

**Session Classification:** Nuclear

**Track Classification:** Particle Physics



Contribution ID: 33

Type: **not specified**

## Francesco Giacosa - Latest news on glueballs

*Thursday, 23 November 2023 11:30 (30 minutes)*

**Presenter:** GIACOSA, Francesco (Institute of Physics, Kielce University)

**Session Classification:** Particle

**Track Classification:** Particle Physics

Contribution ID: **34**

Type: **not specified**

## **Alan Price - NA**

**Session Classification:** Particle

**Track Classification:** Particle Physics

Contribution ID: 35

Type: **not specified**

## Registration