

XXIX The Cracow Epiphany Conference

Report of Contributions

Contribution ID: 1

Type: **not specified**

Registration

Monday 16 January 2023 08:30 (30 minutes)

Contribution ID: 2

Type: **not specified**

Welcome

Monday 16 January 2023 09:00 (15 minutes)

Presenters: CHWASTOWSKI, Janusz (INP Krakow); LESIAK, Tadeusz (IFJ PAN Kraków)

Contribution ID: 3

Type: **not specified**

Physics, Status and Opportunities at the Electron-Ion Collider

Monday 16 January 2023 09:15 (45 minutes)

Presenter: DESHPANDE, Abhay

Contribution ID: 4

Type: **not specified**

Design and Status of the Electron Ion Collider

Monday 16 January 2023 10:00 (45 minutes)

Presenter: WILLEKE, Ferdinand

Contribution ID: 5

Type: **not specified**

The polarisation of the EIC electron beam

Monday 16 January 2023 11:15 (30 minutes)

Presenter: GIANFELICE-WENDT, Elia

Contribution ID: 6

Type: **not specified**

Hadron Polarization in RHIC and EIC (H. Huang)

Monday 16 January 2023 11:45 (30 minutes)

Presenter: HUANG, Haixin

Contribution ID: 7

Type: **not specified**

The EPIC detector

Monday 16 January 2023 12:15 (45 minutes)

Presenter: LAJOIE, John

Contribution ID: 8

Type: **not specified**

Introduction to spin physics

Monday 16 January 2023 14:00 (30 minutes)

Presenter: BADELEK, Barbara (University of Warsaw)

Contribution ID: 9

Type: **not specified**

Theoretical and phenomenological aspects of TMD factorisation

Monday 16 January 2023 14:30 (30 minutes)

Presenter: BERTONE, Valerio

Contribution ID: **10**

Type: **not specified**

Experimental results on TMDs and future perspectives

Monday 16 January 2023 15:00 (30 minutes)

Presenter: BRESSAN, Andrea

Contribution ID: 11

Type: **not specified**

Phenomenology of Generalized Parton Distributions

Monday 16 January 2023 16:00 (30 minutes)

Presenter: WAGNER, Jakub

Contribution ID: 12

Type: **not specified**

Determination of GPDs in the nucleon through exclusive electroproduction

Monday 16 January 2023 16:30 (30 minutes)

Presenter: KUNNE, Fabienne

Contribution ID: **13**

Type: **not specified**

Polarised Physics at the LHC

Monday 16 January 2023 17:30 (30 minutes)

Presenter: DI NEZZA, Pasquale (INFN Frascati)

Contribution ID: 14

Type: **not specified**

Deeply-virtual and photoproduction of mesons at higher-order and higher-twist

Tuesday 17 January 2023 09:00 (30 minutes)

Presenter: PASSEK-KUMERIČKI, Kornelija

Contribution ID: 15

Type: **not specified**

Extracting General Parton Distributions from exclusive measurements at the future EIC

Tuesday 17 January 2023 11:15 (30 minutes)

Presenter: FAZIO, Salvatore (University of Calabria and INFN-Cosenza)

Contribution ID: 16

Type: **not specified**

Hunting for gluon orbital angular momentum at the EIC

Wednesday 18 January 2023 14:30 (30 minutes)

Presenter: BHATTACHARYA, Shohini

Contribution ID: 17

Type: **not specified**

Generalised Parton Distributions from Lattice QCD (K. Cichy)

Tuesday 17 January 2023 09:30 (45 minutes)

Contribution ID: **18**

Type: **not specified**

Off-shell generalized parton distributions and form factors of the pion

Tuesday 17 January 2023 10:15 (30 minutes)

Presenter: BRONIOWSKI, Wojciech (IFJ PAN/UJK)

Contribution ID: **19**

Type: **not specified**

The Tensor Pomeron and Low-x Deeply Virtual Compton Scattering (P. Lebiedowicz)

Wednesday 18 January 2023 14:00 (30 minutes)

Presenter: LEBIEDOWICZ, Piotr (IFJ PAN, Cracow)

Contribution ID: 20

Type: **not specified**

Exclusive heavy vector meson photoproduction on nuclei in NLO QCD (V. Guzey)

Tuesday 17 January 2023 12:15 (30 minutes)

Presenter: GUZEY, Vadim (University of Jyväskylä)

Contribution ID: 21

Type: **not specified**

News on HERA proton structure and prospects from EIC

Tuesday 17 January 2023 13:45 (30 minutes)

Presenter: WICHMANN, Katarzyna (DESY)

Contribution ID: 22

Type: **not specified**

PDF analysis using LHC data (A. Cooper-Sarkar)

Tuesday 17 January 2023 14:15 (30 minutes)

Contribution ID: 23

Type: **not specified**

Evidence for intrinsic charm quarks in the proton (T. Giani)

Tuesday 17 January 2023 14:45 (30 minutes)

Contribution ID: 24

Type: **not specified**

Inclusive and diffractive dijet photoproduction at EIC in NLO QCD (V. Guzey)

Wednesday 18 January 2023 09:00 (30 minutes)

Presenter: GUZEY, Vadim (University of Jyväskylä)

Contribution ID: 25

Type: **not specified**

Nuclear PDF

Wednesday 18 January 2023 09:30 (30 minutes)

Presenter: KUSINA, Aleksander (IFJ PAN Krakow)

Contribution ID: 26

Type: **not specified**

Physics at the HL-LHC with proton tagging

Wednesday 18 January 2023 10:00 (30 minutes)

Presenter: PITT, Michael (Ben Gurion University of the Negev)

Contribution ID: 27

Type: **not specified**

EIC Physics with FD (A. Jentsch)

Wednesday 18 January 2023 10:30 (30 minutes)

Contribution ID: 28

Type: **not specified**

Forward and diffractive physics measurements by CMS (C. Baldenegro)

Wednesday 18 January 2023 11:30 (30 minutes)

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

Contribution ID: 29

Type: **not specified**

Diffractive scattering at NLO in the dipole picture

Wednesday 18 January 2023 12:30 (30 minutes)

Presenter: MÄNTYSAARI, Heikki (University of Jyväskylä)

Contribution ID: 30

Type: **not specified**

Small-x Quark and Gluon Helicity Contribution to the Proton Spin Puzzle

Tuesday 17 January 2023 11:45 (30 minutes)

Presenter: TAWABUTR, Yossathorn (University of Jyväskylä)

Contribution ID: 31

Type: **not specified**

Small-x improved TMD approach for dijet production (T. Altinoluk)

Wednesday 18 January 2023 15:30 (30 minutes)

Contribution ID: 32

Type: **not specified**

Pragmatic extensions of the Standard Model

Wednesday 18 January 2023 16:00 (45 minutes)

Presenter: GRZADKOWSKI, Bohdan (University of Warsaw)

Contribution ID: 33

Type: **not specified**

BSM @ FPF & Phaser

Wednesday 18 January 2023 16:45 (45 minutes)

Presenter: TROJANOWSKI, Sebastian (NCBJ, CAMK PAN)

Contribution ID: 34

Type: **not specified**

Exotic hadron spectroscopy at the EIC (A. Pilloni)

Thursday 19 January 2023 09:00 (45 minutes)

Contribution ID: 35

Type: **not specified**

Review of exotic mesons below 2.5 GeV

Thursday 19 January 2023 09:45 (45 minutes)

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

Contribution ID: 36

Type: **not specified**

Toward a nonet of hybrid mesons: strong and radiative decays

Thursday 19 January 2023 11:30 (30 minutes)

Presenter: SHASTRY, Vanamali (Jan Kochanowski University in Kielce, Poland)

Contribution ID: 37

Type: **not specified**

Mechanical properties of quantum bound states

Thursday 19 January 2023 12:00 (30 minutes)

Primary author: CZARNECKI, Andrzej

Presenters: CZARNECKI, Andrzej; LIU, Yizhuang

Contribution ID: **38**

Type: **not specified**

The Prad experiment at Jefferson Lab (A. Gasparian)

Contribution ID: 39

Type: **not specified**

The Heavy Photon Search Experiment at Jefferson Laboratory (P. Butti)

Thursday 19 January 2023 12:30 (30 minutes)

Contribution ID: 40

Type: **not specified**

Photon and Diffractive Physics with LHeC/FCC-eh

Thursday 19 January 2023 16:30 (30 minutes)

Presenter: PIOTRZKOWSKI, Krzysztof (AGH University of Science and Technology)

Contribution ID: 41

Type: **not specified**

With Energy Recovery Linacs towards LHeC and FCC-eh

Thursday 19 January 2023 14:00 (45 minutes)

Presenter: D'HONDT, Jorgen

Contribution ID: 42

Type: **not specified**

Physics with LHeC and FCC-eh

Thursday 19 January 2023 14:45 (45 minutes)

Presenter: ARMESTO, Nestor

Contribution ID: 43

Type: **not specified**

PERLE: The development of a multi-turn, high current ERL

Thursday 19 January 2023 15:30 (30 minutes)

Presenter: STOCCHI, Achille

Contribution ID: 44

Type: **not specified**

Parton Distributions from LHeC/FCC-eh (F. Giuli)

Thursday 19 January 2023 17:00 (30 minutes)

Presenter: GIULI, Francesco (CERN)

Contribution ID: 45

Type: **not specified**

Nuclear Particle Physics with eA on LHeC/FCCeh (A. Staśto)

Thursday 19 January 2023 17:30 (30 minutes)

Contribution ID: 46

Type: **not specified**

Closing words

Thursday 19 January 2023 18:30 (15 minutes)

Presenter: CHWASTOWSKI, Janusz (INP Krakow)

Contribution ID: 47

Type: **not specified**

Prospects for GPDs extraction with Double DVCS (V. Martínez-Fernández)

Monday 16 January 2023 18:00 (15 minutes)

Session Classification: Young researcher session

Contribution ID: 48

Type: **not specified**

DIS dijet production at next-to-eikonal accuracy

Monday 16 January 2023 18:15 (15 minutes)

Presenter: TYMOWSKA, Arantxa (NCBJ)

Session Classification: Young researcher session

Contribution ID: 49

Type: **not specified**

Gluon propagator in background field at next-to-eikonal order

Monday 16 January 2023 18:30 (15 minutes)

Presenter: MULANI, Swaleha (National Centre for Nuclear Research (NCBJ), Poland)

Session Classification: Young researcher session

Contribution ID: 50

Type: **not specified**

First observation and branching fraction measurement of the $\Lambda_b \rightarrow D_s p$ decay

Tuesday 17 January 2023 15:45 (15 minutes)

Presenter: GIZA, Maciej (IFJ PAN)

Session Classification: Young researcher session

Contribution ID: 51

Type: **not specified**

Central Exclusive Production Studies of $\phi \rightarrow \mu\mu$ at LHCb

Tuesday 17 January 2023 17:45 (15 minutes)

Presenters: JUSZCZAK, Izabela (The Henryk Niewodniczański Institute of Nuclear Physics Polish Academy of Sciences); JUSZCZAK, Izabela (The Henryk Niewodniczański Institute of Nuclear Physics Polish Academy of Sciences)

Session Classification: Young researcher session

Contribution ID: 52

Type: **not specified**

Study of heavy quarks production in DIS at HERA using BGK dipole model

Tuesday 17 January 2023 16:00 (15 minutes)

Presenter: PIETRZAK, Tobiasz (H. Niewodniczański Institute of Nuclear Physics, Polish Academy of Sciences, ul.Eljasza-Radzikowskiego 152, PL 31342 Kraków, Poland)

Session Classification: Young researcher session

Contribution ID: 53

Type: **not specified**

Constraining two Higgs doublet models with heavy lepton decays (Z. Olszewska)

Tuesday 17 January 2023 16:15 (15 minutes)

Session Classification: Young researcher session

Contribution ID: 54

Type: **not specified**

Two-photon fusion production of e^+e^- in proton-lead collision

Tuesday 17 January 2023 16:30 (15 minutes)

Presenter: LINEK, Barbara (University of Rzeszow)

Session Classification: Young researcher session

Contribution ID: 55

Type: **not specified**

Helicity flip transitions and the t-dependence of exclusive photoproduction of rho meson

Tuesday 17 January 2023 17:15 (15 minutes)

Presenter: CISEK, Anna (University of Rzeszow)

Session Classification: Young researcher session

Contribution ID: 56

Type: **not specified**

Search for lepton flavour violation at LHCb

Tuesday 17 January 2023 17:00 (15 minutes)

Presenter: MALCZEWSKI, Jakub (IFJ PAN)

Session Classification: Young researcher session

Contribution ID: 57

Type: **not specified**

Asymptotic Behavior of Parton Helicity at Small x

Presenter: TAWABUTR, Yossathorn (University of Jyväskylä)

Session Classification: Young researcher session

Contribution ID: 58

Type: **not specified**

Nuclear PDF determination using Markov Chain Monte Carlo methods (N. Derakhshanian)

Tuesday 17 January 2023 17:30 (15 minutes)

Session Classification: Young researcher session

Contribution ID: 59

Type: **not specified**

$H^{\pm} \rightarrow \tau \nu$ and fake τ background estimation in the ATLAS experiment

Tuesday 17 January 2023 16:45 (15 minutes)

Presenter: JUZEK, Monika (IFJ PAN)

Session Classification: Young researcher session

Contribution ID: 60

Type: **not specified**

Diffraction and photon-induced processes at CMS

Wednesday 18 January 2023 12:00 (30 minutes)

Presenter: KRINTIRAS, Georgios (The University of Kansas)

Contribution ID: **61**

Type: **not specified**

Exotics at LHCb

Thursday 19 January 2023 10:30 (30 minutes)

Presenter: OBŁĄKOWSKA-MUCHA, Agnieszka

Contribution ID: **62**

Type: **not specified**

Registration

Tuesday 17 January 2023 08:30 (30 minutes)

Contribution ID: **63**

Type: **not specified**

Registration

Wednesday 18 January 2023 08:30 (30 minutes)

Contribution ID: 64

Type: **not specified**

Longitudinal spin structure of the nucleon: data and perspective on EIC

Monday 16 January 2023 17:00 (30 minutes)

Presenter: ŻUREK, Maria

Contribution ID: 65

Type: **not specified**

EWK, Top, Higgs and BSM Physics with LHeC/FCCeh

Thursday 19 January 2023 18:00 (30 minutes)

Presenter: SCHWANENBERGER, Christian Schwanenberger (University of Manchester)