

Workshop on Advances, Innovations, and Future Perspectives in High-Energy Nuclear Physics



Report of Contributions

Contribution ID: 1

Type: **not specified**

Sample1

Contribution ID: 5

Type: **not specified**

Little Bang at Big Colliders: 40 years of ultra-relativistic heavy ion physics

Sunday 20 October 2024 10:10 (30 minutes)

Presenter: SCHUKRAFT, Jurgen (University of Copenhagen (DK))

Session Classification: Plenary

Contribution ID: 6

Type: **not specified**

China-France cooperation and achievement

Sunday 20 October 2024 10:40 (25 minutes)

Presenter: BASTID, Nicole (Université Clermont Auvergne (FR))

Session Classification: Plenary

Contribution ID: 7

Type: **not specified**

From PHOS to FoCal - 25 years of collaboration CCNU-UiB

Sunday 20 October 2024 11:05 (25 minutes)

Presenter: ROEHRICH, Dieter (University of Bergen (NO))

Session Classification: Plenary

Contribution ID: 8

Type: **not specified**

China-Italy cooperation and achievement

Sunday 20 October 2024 11:30 (25 minutes)

Presenter: ROSSI, Andrea (INFN, Padova (IT))

Session Classification: Plenary

Contribution ID: 9

Type: **not specified**

ALICE Highlights

Sunday 20 October 2024 14:00 (30 minutes)

Presenter: SCHWEDA, Kai (GSI - Helmholtzzentrum für Schwerionenforschung GmbH (DE))

Session Classification: Plenary

Contribution ID: **10**

Type: **not specified**

LHCb Highlights

Sunday 20 October 2024 14:30 (30 minutes)

Presenter: ZHU, Xianglei (Tsinghua University (CN))

Session Classification: Plenary

Contribution ID: 11

Type: **not specified**

CMS Highlights

Sunday 20 October 2024 15:00 (30 minutes)

Presenter: CHEN, Zhenyu (Shandong University (CN))

Session Classification: Plenary

Contribution ID: 12

Type: **not specified**

Tea Break

Session Classification: Plenary

Contribution ID: 13

Type: **not specified**

Heavy quark production in magnetic and rotational fields

Presenter: ZHUANG, Pengfei

Contribution ID: 14

Type: **not specified**

STAR Highlights

Presenter: Prof. LUO, Xiaofeng

Session Classification: Plenary

Contribution ID: 15

Type: **not specified**

Science, and reconstruction of hadronic events at the CEPC

Sunday 20 October 2024 16:20 (30 minutes)

Presenter: RUAN, Manqi

Session Classification: Plenary

Contribution ID: 16

Type: **not specified**

Study of QCD phase structure at RHIC

Sunday 20 October 2024 16:50 (30 minutes)

Presenter: XU, Nu

Session Classification: Plenary

Contribution ID: 17

Type: **not specified**

Isolated photon production in pp, pPb and PbPb collisions measured with ALICE

Session Classification: Welcome Speech

Contribution ID: **18**

Type: **not specified**

Recent measurements of dileptons and direct photons at RHIC-STAR

Session Classification: Welcome Speech

Contribution ID: 19

Type: **not specified**

Experimental insights from CMS in ultra-peripheral collisions

Tuesday 22 October 2024 08:30 (25 minutes)

Presenter: YANG, Shuai (South China Normal University)

Session Classification: Plenary

Contribution ID: 20

Type: **not specified**

Jet quenching and medium-response

Tuesday 22 October 2024 08:55 (25 minutes)

Presenter: YANG, Zhong (CCNU)

Session Classification: Plenary

Contribution ID: 21

Type: **not specified**

Study of EEC discrimination power on quark and gluon quenching effects in heavy-ion collisions at 5.02 TeV

Tuesday 22 October 2024 09:45 (25 minutes)

Presenter: DAI, Wei (China University of Geosciences (Wuhan))

Session Classification: Plenary

Contribution ID: 22

Type: **not specified**

Coffe Break

Session Classification: Welcome Speech

Contribution ID: 23

Type: **not specified**

How far can we see back in time in high-energy collisions using charm hadrons?

Tuesday 22 October 2024 10:30 (25 minutes)

Presenter: BARNAFOLDI, Gergely Gabor

Session Classification: Plenary

Contribution ID: 24

Type: **not specified**

Cold nuclear matter effects on jet production at the LHC

Tuesday 22 October 2024 11:20 (25 minutes)

Presenter: Dr SHAO, Dingyu (Fudan University (CN))

Session Classification: Plenary

Contribution ID: 25

Type: **not specified**

Isolated photon production in pp, pPb and PbPb collisions measured with ALICE

Tuesday 22 October 2024 14:00 (25 minutes)

Presenter: CONESA BALBASTRE, Gustavo (Centre National de la Recherche Scientifique (FR))

Session Classification: Plenary

Contribution ID: 26

Type: **not specified**

Observation of the Antimatter Hypernucleus Antihyperhydrogen-4

Tuesday 22 October 2024 14:50 (25 minutes)

Presenter: QIU, Hao

Session Classification: Plenary

Contribution ID: 27

Type: **not specified**

Coffe Break

Session Classification: Welcome Speech

Contribution ID: 28

Type: **not specified**

Probing the flavour dependence of parton showers

Session Classification: Welcome Speech

Contribution ID: 29

Type: **not specified**

Testing CPT symmetry with multi-strange baryons mass precision measurements using ALICE

Tuesday 22 October 2024 16:00 (25 minutes)

Presenter: SCHOTTER, Romain (Stefan Meyer Institute for Subatomic Physics of the Austrian Academy of Sciences (AT))

Session Classification: Plenary

Contribution ID: **30**

Type: **not specified**

Parton fragmentation from vacuum to nuclear medium

Session Classification: Plenary

Contribution ID: 31

Type: **not specified**

Data driven studies of tracking efficiencies with charm-hadron

Presenter: Mr DI BELLA, Valério

Session Classification: Plenary

Contribution ID: 32

Type: **not specified**

HBT correlation in heavy-ion collisions with a hard process

Wednesday 23 October 2024 08:30 (25 minutes)

Presenter: Prof. KE, Weiyao (Central China Normal University)

Session Classification: Plenary

Contribution ID: 33

Type: **not specified**

Overview of experimental results on open heavy-flavour hadronization

Wednesday 23 October 2024 09:20 (25 minutes)

Presenter: ROSSI, Andrea (INFN, Padova (IT))

Session Classification: Plenary

Contribution ID: 34

Type: **not specified**

Probing the quark-gluon plasma with heavy-flavour hadrons

Wednesday 23 October 2024 09:45 (25 minutes)

Presenter: GROSA, Fabrizio (CERN)

Session Classification: Plenary

Contribution ID: 35

Type: **not specified**

coffee break

Session Classification: Welcome Speech

Contribution ID: 36

Type: **not specified**

Search for the Chiral Magnetic Effect with Forced Match of Multiplicity and Elliptic Flow in Isoobar Collisions at STAR

Session Classification: Welcome Speech

Contribution ID: 37

Type: **not specified**

The ALICE upgrade program

Session Classification: Welcome Speech

Contribution ID: **38**

Type: **not specified**

Prospects and challenges for LHCb upgrades

Session Classification: Welcome Speech

Contribution ID: 39

Type: **not specified**

Heavy quark production in magnetic and rotational fields

Monday 21 October 2024 08:30 (30 minutes)

Presenter: ZHUANG, Pengfei

Session Classification: Plenary

Contribution ID: 40

Type: **not specified**

Global quark spin correlations in relativistic heavy ion collisions

Monday 21 October 2024 09:00 (30 minutes)

Presenter: LIANG, Zuo-tang (Shandong University)

Session Classification: Plenary

Contribution ID: 41

Type: **not specified**

Soft physics for high energy nucleus-nucleus collisions

Monday 21 October 2024 09:30 (30 minutes)

Presenter: SONG, Huichao

Session Classification: Plenary

Contribution ID: 42

Type: **not specified**

extraction of sound velocity in ultra-central heavy-ion collisions

Presenter: YAN, Li (Fudan University)

Contribution ID: 43

Type: **not specified**

ALICE detector development at CCNU

Monday 21 October 2024 15:00 (30 minutes)

Presenter: YIN, Zhong-Bao (Central China Normal University CCNU (CN))

Session Classification: Plenary

Contribution ID: 44

Type: **not specified**

ALICE 3 physics programme

Presenter: MAIRE, Antonin (IPHC - Strasbourg (CNRS-In2p3/Unistra))

Session Classification: Plenary

Contribution ID: 45

Type: **not specified**

Efficient scientific computing with the ALICE event processing nodes GPU-based farm

Monday 21 October 2024 17:15 (30 minutes)

Presenter: RONCHETTI, Federico (CERN)

Session Classification: Plenary

Contribution ID: 46

Type: **not specified**

Spin polarization phase transition and transportation of QGP at finite temperature in the presences of magnetic field and rotation

Wednesday 23 October 2024 10:55 (25 minutes)

Presenter: FENG, Sheng-Qin

Session Classification: Plenary

Contribution ID: 47

Type: **not specified**

Collectivity from the STAR BES program

Wednesday 23 October 2024 14:00 (25 minutes)

Presenter: SHI, Shusu

Session Classification: Plenary

Contribution ID: 48

Type: **not specified**

Extraction of sound velocity in ultra-central heavy-ion collisions

Wednesday 23 October 2024 14:25 (25 minutes)

Presenter: YAN, Li (Fudan University)

Session Classification: Plenary

Contribution ID: 49

Type: **not specified**

Imaging shapes of atomic nuclei in High-Energy Nuclear collisions

Wednesday 23 October 2024 14:50 (25 minutes)

Presenter: ZHANG, Chunjian

Session Classification: Plenary

Contribution ID: 50

Type: **not specified**

Unveiling the origin of QGP-like effects in pp and p-Pb collisions using flattenicity

Wednesday 23 October 2024 16:25 (25 minutes)

Presenter: ORTIZ VELASQUEZ, Antonio

Session Classification: Plenary

Contribution ID: 51

Type: **not specified**

Study jet-induced medium response within CoLBT-hydro model

Presenter: YANG, Zhong (CCNU)

Contribution ID: 52

Type: **not specified**

Quarkonium production in heavy-ion collisions

Tuesday 22 October 2024 16:25 (25 minutes)

Presenter: BAI, Xiaozhi (University of Science and Technology of China (USTC))

Session Classification: Plenary

Contribution ID: 53

Type: **not specified**

Lattice determination of heavy quark diffusion

Tuesday 22 October 2024 10:55 (25 minutes)

Presenter: Mr SHU, HaiTao

Session Classification: Plenary

Contribution ID: 54

Type: **not specified**

Density dependent QCD effects in pp collisions

Monday 21 October 2024 10:50 (30 minutes)

Presenter: MORSCH, Andreas (CERN)

Session Classification: Plenary

Contribution ID: 55

Type: **not specified**

Parton fragmentation from vacuum to nuclear medium

Monday 21 October 2024 11:20 (30 minutes)

Presenter: XING, Hongxi (South China Normal University)

Session Classification: Plenary

Contribution ID: 56

Type: **not specified**

Light and heavy flavor jet quenching in relativistic heavy-ion collisions

Monday 21 October 2024 11:50 (30 minutes)

Presenter: CAO, Shanshan (Shandong University)

Session Classification: Plenary

Contribution ID: 57

Type: **not specified**

The development of Si detector in ALICE: from ITS2 to ITS3

Monday 21 October 2024 14:30 (30 minutes)

Presenter: FANTONI, Alessandra (INFN e Laboratori Nazionali di Frascati (IT))

Session Classification: Plenary

Contribution ID: 58

Type: **not specified**

Prospects and challenges for LHCb upgrades

Monday 21 October 2024 16:25 (25 minutes)

Presenter: GUITTIERE, Manuel (Centre National de la Recherche Scientifique (FR))

Session Classification: Plenary

Contribution ID: 59

Type: **not specified**

Detector development at CIAE

Monday 21 October 2024 17:45 (30 minutes)

Presenter: LI, Xiaomei (China Institute of Atomic Energy (CN))

Session Classification: Plenary

Contribution ID: **60**

Type: **not specified**

Multiplicity-dependent quarkonium production

Tuesday 22 October 2024 15:15 (25 minutes)

Presenter: URAS, Antonio (Centre National de la Recherche Scientifique (FR))

Session Classification: Plenary

Contribution ID: **61**

Type: **not specified**

Overview of recent HF highlights results

Wednesday 23 October 2024 08:55 (25 minutes)

Presenter: TERREVOLI, Cristina (Universita e INFN, Bari (IT))

Session Classification: Plenary

Contribution ID: 62

Type: **not specified**

Spin polarization of Λ hyperons along beam direction in p+Pb collisions using hydrodynamic approaches

Wednesday 23 October 2024 11:45 (25 minutes)

Presenter: YI, Cong

Session Classification: Plenary

Contribution ID: 63

Type: **not specified**

Constraining the gluon helicity at STAR

Wednesday 23 October 2024 16:50 (25 minutes)

Presenter: LIN, Ting

Session Classification: Plenary

Contribution ID: **66**

Type: **not specified**

China-Italy cooperation and achievement

Presenter: ROSSI, Andrea (INFN, Padova (IT))

Contribution ID: 67

Type: **not specified**

ALICE-China cooperation and achievement

Sunday 20 October 2024 11:55 (25 minutes)

Presenter: ZHOU, Daicui (Central China Normal University CCNU (CN))

Session Classification: Plenary

Contribution ID: **68**

Type: **not specified**

ATLAS Highlights

Sunday 20 October 2024 15:30 (30 minutes)

Presenter: HU, Qipeng (University of Science and Technology of China (CN))

Session Classification: Plenary

Contribution ID: 69

Type: **not specified**

Deep learning for nuclear equation of state at extreme conditions

Presenter: PANG, LongGang (Central China Normal University)

Session Classification: Plenary

Contribution ID: 70

Type: **not specified**

Heavy flavour production in LHCb

Monday 21 October 2024 10:00 (30 minutes)

Presenter: HE, Jibo (University of Chinese Academy of Sciences (CN))

Session Classification: Plenary

Contribution ID: 71

Type: **not specified**

Probing the flavour dependence of parton showers

Tuesday 22 October 2024 09:20 (25 minutes)

Presenter: ZARDOSHTI, Nima (CERN)

Session Classification: Plenary

Contribution ID: 72

Type: **not specified**

Classical description of quark interactions

Tuesday 22 October 2024 11:45 (25 minutes)

Presenter: TAN, Zhiguang

Session Classification: Plenary

Contribution ID: 73

Type: **not specified**

QCD Challenges

Tuesday 22 October 2024 14:25 (25 minutes)

Presenter: PETROVICI, Mihai (Horia Hulubei National Institute of Physics and Nuclear Engineering (RO))

Session Classification: Plenary

Contribution ID: 74

Type: **not specified**

First observation of (B0 -> D- pi+) signal in ALICE (pp 13.6 TeV)

Presenter: BIGOT, Alexandre (Centre National de la Recherche Scientifique (FR))

Contribution ID: 75

Type: **not specified**

Quarkonium production in pp and p-Pb collisions

Tuesday 22 October 2024 16:50 (25 minutes)

Presenter: FEUILLARD, Victor Jose Gaston (Heidelberg University (DE))

Session Classification: Plenary

Contribution ID: 76

Type: **not specified**

Prompt/non-prompt Jpsi production in ALICE

Tuesday 22 October 2024 17:15 (25 minutes)

Presenter: COQUET, Maurice (Centre National de la Recherche Scientifique (FR))

Session Classification: Plenary

Contribution ID: 77

Type: **not specified**

Quarkonium photoproduction in peripheral PbPb and ultra-peripheral collisions

Tuesday 22 October 2024 17:40 (25 minutes)

Presenter: ARSENE, Ionut Cristian (University of Oslo (NO))

Session Classification: Plenary

Contribution ID: 78

Type: **not specified**

Spin polarization in A+A and p+A collisions

Wednesday 23 October 2024 10:30 (25 minutes)

Presenter: PU, Shi

Session Classification: Plenary

Contribution ID: 79

Type: **not specified**

Probing collectivity with fluctuations of the pt spectrum

Wednesday 23 October 2024 15:15 (25 minutes)

Presenter: OLLITRAULT, Jean-Yves

Session Classification: Plenary

Contribution ID: **80**

Type: **not specified**

W and Z production in hadronic collisions with ALICE

Wednesday 23 October 2024 15:40 (25 minutes)

Presenter: STOCCO, Diego (Centre National de la Recherche Scientifique (FR))

Session Classification: Plenary

Contribution ID: **81**

Type: **not specified**

Anisotropic flow measurements in small collision systems

Presenter: ZHAO, Mingrui (China Institute of Atomic Energy (CN))

Contribution ID: 82

Type: **not specified**

Exploring nuclear structure with multiparticle azimuthal correlations at the LHC

Presenter: LU, Zhiyong (China Institute of Atomic Energy (CN))

Contribution ID: 83

Type: **not specified**

Deep learning for nuclear equation of state at extreme conditions

Thursday 24 October 2024 09:00 (25 minutes)

Presenter: PANG, LongGang (Central China Normal University)

Session Classification: Plenary

Contribution ID: 84

Type: **not specified**

Exploring nuclear structure with multiparticle azimuthal correlations at the LHC

Thursday 24 October 2024 09:25 (25 minutes)

Presenter: LU, Zhiyong (China Institute of Atomic Energy (CN))

Session Classification: Plenary

Contribution ID: 85

Type: **not specified**

External magnetic field induced paramagnetic squeezing effect in heavy-ion collisions at the LHC

Thursday 24 October 2024 09:50 (25 minutes)

Presenter: JIANG, Zefang

Session Classification: Plenary

Contribution ID: 86

Type: **not specified**

Nonperturbative heavy quark transport in a semi-Quark-Gluon-Plasma

Thursday 24 October 2024 10:35 (25 minutes)

Presenter: LI, Shuang (China Three Gorges University)

Session Classification: Plenary

Contribution ID: 87

Type: **not specified**

Search for the chiral magnetic effect with forced match of multiplicity and elliptic flow in isobar collisions at STAR

Thursday 24 October 2024 11:00 (25 minutes)

Presenter: Dr LIN, Yufu (Guangxi Normal University)

Session Classification: Plenary

Contribution ID: **88**

Type: **not specified**

Exotic states production in nuclear collisions at the LHC energy

Thursday 24 October 2024 11:25 (25 minutes)

Presenter: SHE, Zhilei

Session Classification: Plenary

Contribution ID: 89

Type: **not specified**

Closing Remarks

Thursday 24 October 2024 11:50 (25 minutes)

Presenter: ZHANG, Xiaoming (Central China Normal University CCNU (CN))

Session Classification: Plenary

Contribution ID: **90**

Type: **not specified**

The ALICE upgrade program

Monday 21 October 2024 14:00 (30 minutes)

Presenter: VAN LEEUWEN, Marco (Nikhef National institute for subatomic physics (NL))

Session Classification: Plenary

Contribution ID: **91**

Type: **not specified**

MAPS chip R&D at CCNU

Monday 21 October 2024 16:50 (25 minutes)

Presenter: SUN, Xiangming

Session Classification: Plenary

Contribution ID: 92

Type: **not specified**

Distilling circularly polarized photon emission from magnetized chiral plasmas

Wednesday 23 October 2024 11:20 (25 minutes)

Presenter: WANG, Xinyang

Session Classification: Plenary

Contribution ID: 93

Type: **not specified**

First observation of (B0 -> D- pi+) signal in ALICE (pp 13.6 TeV)

Presenter: BIGOT, Alexandre (Centre National de la Recherche Scientifique (FR))

Session Classification: Plenary

Contribution ID: 94

Type: **not specified**

Anisotropic flow measurements in small collision systems

Wednesday 23 October 2024 17:15 (25 minutes)

Presenter: ZHAO, Mingrui (China Institute of Atomic Energy (CN))

Session Classification: Plenary

Contribution ID: 95

Type: **not specified**

Probe element synthesis in star with deep underground JUNA facility

Sunday 20 October 2024 17:20 (30 minutes)

Presenter: LIU, Weiping

Session Classification: Plenary

Contribution ID: 96

Type: **not specified**

Collectivity: Prospects and Future Directions

Sunday 20 October 2024 17:50 (35 minutes)

Presenter: JIA, Jiangyong (Stony Brook University (US))

Session Classification: Plenary

Contribution ID: 97

Type: **not specified**

ALICE 3 physics programme

Monday 21 October 2024 15:30 (30 minutes)

Presenter: MAIRE, Antonin (IPHC - Strasbourg (CNRS-In2p3/Unistra))

Session Classification: Plenary

Contribution ID: **98**

Type: **not specified**

Greetings

Monday 21 October 2024 16:20 (5 minutes)

Presenter: MASCIOCCHI, Silvia (GSI - Helmholtzzentrum für Schwerionenforschung GmbH (DE))

Session Classification: Plenary