### The 39th Winter Workshop on Nuclear Dynamics



## **Report of Contributions**

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Reception

Contribution ID: 1

Type: not specified

### Reception

Dynamical fluctuations in Heavy ···

Contribution ID: 2

Type: not specified

### **Dynamical fluctuations in Heavy Ion Collisions**

Monday 12 February 2024 08:00 (30 minutes)

**Presenter:** Prof. PRUNEAU, Claude Andre (Wayne State University (US))

Disoriented Isospin Condensates ···

Contribution ID: 3

Type: not specified

### Disoriented Isospin Condensates as source of anomalous kaon correlations at LHC

Monday 12 February 2024 08:30 (30 minutes)

Presenter: SINGH, Mayank (University of Minnesota)

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Baryon number dynamics in hea  $\,\cdots\,$ 

Contribution ID: 4

Type: not specified

#### Baryon number dynamics in heavy ion collisions

*Monday 12 February 2024 09:00 (30 minutes)* 

Presenter: FRENKLAKH, David (Stony Brook University)

Probing strongly interacting mat ...

Contribution ID: 5

Type: not specified

### Probing strongly interacting matter with clusters

Monday 12 February 2024 09:30 (30 minutes)

Presenter: BRATKOVSKAYA, Elena (GSI, Darmstadt)

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Jets at STAR

Contribution ID: 6

Type: not specified

### Jets at STAR

Monday 12 February 2024 10:30 (30 minutes)

Presenter: MOONEY, Isaac

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Measurements of identified parti  $\,\cdots\,$ 

Contribution ID: 7

Type: not specified

#### Measurements of identified particle spectra in Ru+Ru and Zr+Zr collisions at 200 GeV by the STAR experiment

Monday 12 February 2024 11:00 (30 minutes)

Presenter: MA, Rongrong (BNL)

Scaling properties of  $\phi$ -meson and  $\cdots$ 

Contribution ID: 8

Type: not specified

## Scaling properties of $\phi$ -meson and charged hadron production at PHENIX

Monday 12 February 2024 11:30 (30 minutes)

Presenter: DOOMRA, Vassu (Stony Brook University)

Disentangling centrality bias and …

Contribution ID: 9

Type: not specified

#### Disentangling centrality bias and final-state effects in the production of neutral pions using direct photons in d+Au collisions at 200 GeV

Monday 12 February 2024 17:30 (30 minutes)

Presenter: FIRAK, Daniel

Diffractive Vector Meson photop ···

Contribution ID: 10

Type: not specified

## Diffractive Vector Meson photoproduction at RHIC and at the future EIC

Monday 12 February 2024 18:00 (30 minutes)

**Presenter:** TU, Zhoudunming

Tracing the baryon number carri  $\cdots$ 

Contribution ID: 11

Type: not specified

## Tracing the baryon number carrier through photon induced processes from STAR

Monday 12 February 2024 18:30 (30 minutes)

Presenter: TRIBEDY, Prithwish (Brookhaven National Lab)

A photon runs through it

Contribution ID: 12

Type: not specified

### A photon runs through it

Monday 12 February 2024 19:00 (30 minutes)

Presenter: Prof. BRANDENBURG, James (Ohio State University)

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Overview of JETSCAPE

Contribution ID: 13

Type: not specified

### **Overview of JETSCAPE**

Tuesday 13 February 2024 08:00 (30 minutes)

**Presenter:** MAJUMDER, Abhijit (Wayne State University)

Holographic transport coefficient ...

Contribution ID: 14

Type: not specified

# Holographic transport coefficients and jet energy loss for the hot and dense quark-gluon plasma.

Tuesday 13 February 2024 08:30 (30 minutes)

**Presenter:** GREFA, Joaquin

Sequentially Charming Chemical ···

Contribution ID: 15

Type: not specified

#### Sequentially Charming Chemical Freeze-out in Heavy Ion Collisions at LHC Energies

Tuesday 13 February 2024 09:00 (30 minutes)

Presenter: FLOR, Fernando Antonio (Yale University (US))

Hints of Entanglement Suppressi

Contribution ID: 16

Type: not specified

#### Hints of Entanglement Suppression in Hyperon-Nucleon Scattering

Tuesday 13 February 2024 09:30 (30 minutes)

Presenter: LOW, Ian

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Measurement of jet cross-section ···

Contribution ID: 17

Type: not specified

#### Measurement of jet cross-section and substructure in p+p collisions 200 GeV with the PHENIX experiment at RHIC

Tuesday 13 February 2024 10:30 (30 minutes)

Presenter: LEBEDEV, Alexandre (Iowa State University (US))

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Probing the parton shower and h  $\cdots$ 

Contribution ID: 18

Type: not specified

#### Probing the parton shower and hadronization with novel jet substructure measurements in 200 GeV pp collisions at STAR

Tuesday 13 February 2024 11:00 (30 minutes)

Presenter: SONG, Youqi

Jet Quenching Dependence on A  $\cdots$ 

Contribution ID: 19

Type: not specified

#### Jet Quenching Dependence on Angularities and Flavor at RHIC

Tuesday 13 February 2024 11:30 (30 minutes)

**Presenter:** SALUR, Sevil (Rutgers State Univ. of New Jersey (US))

Imaging the QGP with Energy C  $\cdots$ 

Contribution ID: 20

Type: not specified

### Imaging the QGP with Energy Correlators

Tuesday 13 February 2024 17:30 (30 minutes)

**Presenter:** MOULT, Ian

Probing the short-distance struct ...

Contribution ID: 21

Type: not specified

## Probing the short-distance structure of QGP with EEC

Tuesday 13 February 2024 18:00 (30 minutes)

Presenter: Dr WANG, Xin-Nian (Lawrence Berkeley National Lab. (US))

Experimental determination of  $\cdots$ 

Contribution ID: 22

Type: not specified

# Experimental determination of energy-energy correlators in heavy ion collisions

Tuesday 13 February 2024 18:30 (30 minutes)

Presenter: VIINIKAINEN, Jussi (Vanderbilt University (US))

Probing jet substructure with ene

Contribution ID: 23

Type: not specified

## Probing jet substructure with energy correlators in pp collisions at 13 TeV with ALICE

Tuesday 13 February 2024 19:00 (30 minutes)

Presenter: RAI, Ananya (Yale University (US))

Are high energy pp collisions rea ...

Contribution ID: 24

Type: not specified

## Are high energy pp collisions really elementary collisions? Results from EPOS4HQ

Wednesday 14 February 2024 08:00 (30 minutes)

**Presenter:** AICHELIN, Joerg

Triple-differential yields from ···

Contribution ID: 25

Type: not specified

#### Triple-differential yields from heavy-ion collisions through reaction-plane deblurring

Wednesday 14 February 2024 08:30 (30 minutes)

**Presenter:** DANIELEWICZ, Pawel (Michigan State University)

sPHENIX Forward Detectors and  $\cdots$ 

Contribution ID: 26

Type: not specified

#### sPHENIX Forward Detectors and Physics

Wednesday 14 February 2024 09:30 (30 minutes)

Presenter: UMAKA, Ejiro Naomi (Brookhaven National Laboratory (US))

Construction and Physics of the E  $\,\cdots\,$ 

Contribution ID: 27

Type: not specified

#### Construction and Physics of the Event Plane Detectors at RHIC

Wednesday 14 February 2024 09:00 (30 minutes)

Presenter: PROTZMAN, Tristan (Lehigh University)

Jet performance studies of sPHE ····

Contribution ID: 28

Type: not specified

## Jet performance studies of sPHENIX with early data and simulation

Wednesday 14 February 2024 10:30 (30 minutes)

Presenter: KIMELMAN, Benjamin (Vanderbilt University)

Exploring the Feasibility of Imagi ...

Contribution ID: 29

Type: not specified

#### **Exploring the Feasibility of Imaging Atomic Nuclei** at the Electron-Ion Collider

Wednesday 14 February 2024 11:00 (30 minutes)

Presenter: Dr MAGDY ABDELRAHMAN, Niseem (The University of Tennessee, Knoxville)

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Outreach with the EIC

Contribution ID: 30

Type: not specified

### **Outreach with the EIC**

Wednesday 14 February 2024 11:30 (30 minutes)

Presenter: KUNNAWALKAM ELAYAVALLI, Raghav (Vanderbilt University)

The 2023 Long-Range Plan for N  $\,\cdots\,$ 

Contribution ID: 31

Type: not specified

#### The 2023 Long-Range Plan for Nuclear Science from the Heavy Ion Perspective

Wednesday 14 February 2024 12:00 (30 minutes)

Presenter: RUAN, Lijuan

Understanding parton evolution i  $\cdots$ 

Contribution ID: 32

Type: not specified

# Understanding parton evolution in matter from renormalization group analysis

Wednesday 14 February 2024 17:30 (30 minutes)

Presenter: Dr VITEV, Ivan

Electromagnetic probes in heavy- ···

Contribution ID: 33

Type: not specified

## Electromagnetic probes in heavy-ion collisions: progress and open questions

Wednesday 14 February 2024 18:00 (30 minutes)

Presenter: PAQUET, Jean-Francois (Vanderbilt University)

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Directed flow splitting and EM fi $\,\cdots\,$ 

Contribution ID: 34

Type: not specified

### Directed flow splitting and EM field effects

Wednesday 14 February 2024 18:30 (30 minutes)

**Presenter:** TANG, Aihong

Non-prompt direct-photon produ  $\cdots$ 

Contribution ID: 35

Type: not specified

### Non-prompt direct-photon production in Au+Au collisions at 200 GeV

Wednesday 14 February 2024 19:00 (30 minutes)

**Presenter:** Dr SHARMA, Deepali (Georgia State University)

Recent Developments on Theory …

Contribution ID: 36

Type: not specified

### Recent Developments on Theory of matter at High Baryon Density

Thursday 15 February 2024 08:00 (30 minutes)

**Presenter:** MCLERRAN, Larry

Heavy ion collisions from 62.4 A  $\,\cdots\,$ 

Contribution ID: 37

Type: not specified

### Heavy ion collisions from 62.4 AGeV down to 4 AGeV in the EPOS4 framework

Thursday 15 February 2024 08:30 (30 minutes)

Presenter: WERNER, Klaus

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Finite density QCD equation of s ...

Contribution ID: 38

Type: not specified

# Finite density QCD equation of state and lattice-based T'-expansion (Ising-TExS)

Thursday 15 February 2024 09:00 (30 minutes)

Presenter: KAHANGIRWE, Micheal

4D-TExS: A new 4D lattice QCD e  $\cdots$ 

Contribution ID: 39

Type: not specified

### 4D-TExS: A new 4D lattice QCD equation of state with extended density coverag

Thursday 15 February 2024 09:30 (30 minutes)

Presenter: Dr JAHAN, Johannès (University of Houston - Department of Physics)

The sign problem of dense cool n  $\cdots$ 

Contribution ID: 40

Type: not specified

# The sign problem of dense cool nuclear matter and real-time simulations

Thursday 15 February 2024 10:30 (30 minutes)

Presenter: VALGUSHEV, Semeon (Iowa State University)

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Unveiling Complexities in the Ph ...

Contribution ID: 41

Type: not specified

### Unveiling Complexities in the Phase Diagram through the Deconfinement Potential and Vector Meson Analysis in the Chiral Mean-Field Model

Thursday 15 February 2024 11:00 (30 minutes)

Presenter: KUMAR, Rajesh

Status of the MUSES collaboration

Contribution ID: 42

Type: not specified

## Status of the MUSES collaboration

Thursday 15 February 2024 11:30 (30 minutes)

Presenter: RATTI, Claudia

Overview of HADES experiment ...

Contribution ID: 43

Type: not specified

### **Overview of HADES experimental results**

Thursday 15 February 2024 17:30 (30 minutes)

Presenter: STEFANIAK, Maria

Extraction of QGP speed of sound …

Contribution ID: 44

Type: not specified

## Extraction of QGP speed of sound with CMS

Thursday 15 February 2024 18:00 (30 minutes)

**Presenter:** LI, Wei (Rice University (US))

Transverve moment correlations ····

Contribution ID: 45

Type: not specified

#### Transverve moment correlations and fluctuations from 3.0 GeV fixed-target collisions at STAR

Thursday 15 February 2024 18:30 (30 minutes)

**Presenter:** MANIKANDHAN, Rutik (University of Houston)

Azimuthally sensitive femtoscopy ···

Contribution ID: 46

Type: not specified

### Azimuthally sensitive femtoscopy with RHIC Beam Energy Scan II data from STAR

Thursday 15 February 2024 19:00 (30 minutes)

Presenter: KHYZHNIAK, Eugenia

ALICE Computing

Contribution ID: 47

Type: not specified

# **ALICE Computing**

Friday 16 February 2024 08:00 (30 minutes)

Presenter: CHAKABERIA, Irakli (Lawrence Berkeley National Lab. (US))

Recents progress in quarkonia dy ...

Contribution ID: 48

Type: not specified

# Recents progress in quarkonia dynamics with open quantum systems

*Friday 16 February 2024 08:30 (30 minutes)* 

Presenter: GOSSIAUX, Pol-Bernard

Recent open HF results from ALICE

Contribution ID: 49

Type: not specified

## **Recent open HF results from ALICE**

Friday 16 February 2024 09:00 (30 minutes)

**Presenter:** THOMAS, Deepa (University of Texas at Austin (US))

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Study of heavy-flavor jet fragme ····

Contribution ID: 50

Type: not specified

### Study of heavy-flavor jet fragmentation using angular correlations with the ALICE experiment at the LHC

*Friday 16 February 2024 09:30 (30 minutes)* 

Presenter: FLORES, Amanda (University of Texas at Austin (US))

LHCb Overview

Contribution ID: 51

Type: not specified

# LHCb Overview

Friday 16 February 2024 10:30 (30 minutes)

Presenter: DURHAM, John Matthew (Los Alamos National Laboratory)

Hadronization at LHCb

Contribution ID: 52

Type: not specified

### Hadronization at LHCb

Friday 16 February 2024 11:00 (30 minutes)

Presenter: BERKEY, Julie Lane Marie (Los Alamos National Laboratory (US))

Exploring Strong Interactions in ···

Contribution ID: 53

Type: not specified

### Exploring Strong Interactions in Three-Hadron Systems at the LHC

Friday 16 February 2024 11:30 (30 minutes)

Presenter: SINGH, Bhawani (Technische Universitaet Muenchen (DE))

Revisiting the computation of tra  $\cdots$ 

Contribution ID: 54

Type: not specified

### Revisiting the computation of transient hydrodynamic transport coefficients with hadron-resonance gas and thermal-mass quasiparticle models

Friday 16 February 2024 17:30 (30 minutes)

Presenter: SOARES ROCHA, Gabriel

Overview of PHENIX spin results

Contribution ID: 55

Type: not specified

# **Overview of PHENIX spin results**

Friday 16 February 2024 18:00 (30 minutes)

**Presenter:** SEIDL, Ralf

Path-length dependence of jet qu ...

Contribution ID: 56

Type: not specified

# Path-length dependence of jet quenching at the LHC & RHIC

Friday 16 February 2024 18:30 (30 minutes)

Presenter: SICKLES, Anne Marie (Univ. Illinois at Urbana Champaign (US))

QGP Signatures - Then and Now

Contribution ID: 57

Type: not specified

# **QGP Signatures - Then and Now**

Friday 16 February 2024 19:00 (30 minutes)

**Presenter:** HARRIS, John William (Yale University (US))