

# **The 38th Winter Workshop on Nuclear Dynamics**

## **Report of Contributions**

Contribution ID: 1

Type: **not specified**

## **3D structure of jet-induced diffusion wake in high-energy heavy-ion collisions**

*Monday, February 6, 2023 9:00 AM (30 minutes)*

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

Contribution ID: 2

Type: **not specified**

## **Everything You Wanted to Know About Jets.....**

*Tuesday, February 7, 2023 11:30 AM (30 minutes)*

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

Contribution ID: 3

Type: **not specified**

## **EPOS4 - An overview**

*Monday, February 6, 2023 10:00 AM (30 minutes)*

**Presenter:** WERNER, Klaus

Contribution ID: 4

Type: **not specified**

## **Bayesian constraints on the initial stage using Trajectum**

*Monday, February 6, 2023 11:00 AM (30 minutes)*

**Presenter:** GOVERT, Nijs (MIT)

Contribution ID: 5

Type: **not specified**

## **Precision measurements with trapped ions and lasers at FRIB**

*Monday, February 6, 2023 11:30 AM (30 minutes)*

**Presenter:** Dr KARTHEIN, Jonas (Massachusetts Inst. of Technology (US))

Contribution ID: 6

Type: **not specified**

## **Experimental signatures of nuclear structure in heavy ion collisions**

*Monday, February 6, 2023 6:00 PM (30 minutes)*

**Presenter:** ZHANG, Chunjian (Stony Brook University)

Contribution ID: 7

Type: **not specified**

## **Forward Physics in small systems at the LHC**

*Monday, February 6, 2023 9:30 AM (30 minutes)*

**Presenter:** TIMMINS, Anthony Robert (University of Houston (US))



Contribution ID: 8

Type: **not specified**

## **Particle production as a function of the Underlying Event activity in small and large collision systems**

*Monday, February 6, 2023 5:30 PM (30 minutes)*

**Presenter:** SILVERMYR, David (Lund University (SE))

Contribution ID: 9

Type: **not specified**

## Results from JetScape

*Tuesday, February 7, 2023 9:00 AM (30 minutes)*

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

Contribution ID: **10**

Type: **not specified**

## **Strangeness production in NA61/SHINE**

*Tuesday, February 7, 2023 9:30 AM (30 minutes)*

**Presenter:** BRYLINSKI, Wojciech (Warsaw University of Technology (PL))

Contribution ID: 11

Type: **not specified**

# Holographic QCD Equation of State Modeling in the Bayesian Era

*Tuesday, February 7, 2023 10:00 AM (30 minutes)*

**Presenter:** HIPPERT TEIXEIRA, Mauricio (University of Illinois at Urbana-Champaign)

Contribution ID: 12

Type: **not specified**

## **Energy and entropy densities in p+p, p+Pb and Pb+Pb collisions from 0.01 to 13 TeV**

*Tuesday, February 7, 2023 11:00 AM (30 minutes)*

**Presenter:** CUAUTLE FLORES, Eleazar (Universidad Nacional Autonoma (MX))

Contribution ID: 13

Type: **not specified**

## **System size dependence of jet modification in heavy-ion collisions**

*Monday, February 6, 2023 6:30 PM (20 minutes)*

**Presenter:** HE, Yang (ShanDongUniversity)

Contribution ID: 14

Type: **not specified**

## **Unveiling the effects of multiple soft partonic interactions in pp collisions at 13.6 TeV using charged-particle flattenicity**

*Tuesday, February 7, 2023 5:30 PM (30 minutes)*

**Presenter:** VAZQUEZ RUEDA, Omar (University of Houston (US))

Contribution ID: 15

Type: **not specified**

## **Speed of sound and the effective QCD phase diagram**

*Tuesday, February 7, 2023 6:00 PM (30 minutes)*

**Presenter:** HERNÁNDEZ ORTIZ, Saúl Fernando



Contribution ID: 16

Type: **not specified**

## “Hedgehog” events revisited

*Tuesday, February 7, 2023 6:30 PM (30 minutes)*

**Presenter:** SERKIN, Leonid (ICN-UNAM (MX))

Contribution ID: 17

Type: **not specified**

## **Pure SU(3) on the lattice, physical limit**

*Wednesday, February 8, 2023 9:00 AM (30 minutes)*

**Presenter:** FODOR, Zoltan

Contribution ID: **18**

Type: **not specified**

## **Fluctuations for QCD Phase Diagram Characterization**

*Wednesday, February 8, 2023 9:30 AM (30 minutes)*

**Presenter:** KARTHEIN, Jamie (MIT)

Contribution ID: 19

Type: **not specified**

## **QCD equation of state at finite density with a critical point from an alternative expansion scheme**

*Wednesday, February 8, 2023 10:00 AM (30 minutes)*

**Presenter:** KAHANGIRWE, Micheal (University of Houston)

Contribution ID: 20

Type: **not specified**

## **Measuring the properties of Quark Gluon Plasma with Unified Balance Functions**

*Wednesday, February 8, 2023 11:00 AM (30 minutes)*

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

Contribution ID: 21

Type: **not specified**

## **Results on light (anti)hypernuclei production with ALICE at the LHC**

*Wednesday, February 8, 2023 11:30 AM (30 minutes)*

**Presenter:** BARTSCH, Esther (Goethe University Frankfurt (DE))

Contribution ID: 22

Type: **not specified**

# **Probing a new regime of ultra-dense gluonic matter using high-energy photons with the CMS Experiment**

*Wednesday, February 8, 2023 5:30 PM (30 minutes)*

**Presenter:** LIN, Jiazhao (Rice University (US))

Contribution ID: 23

Type: **not specified**

## **Improving Bayesian parameter estimation with the latest RHIC and LHC data including a new initial conditions model**

*Wednesday, February 8, 2023 6:00 PM (30 minutes)*

**Presenter:** KIM, Dong Jo (University of Jyvaskyla (FI))



Contribution ID: 24

Type: **not specified**

## **Recent results on hadronic resonances production with ALICE at the LHC**

*Wednesday, February 8, 2023 6:30 PM (30 minutes)*

**Presenter:** LIM, Bong-Hwi (Universita e INFN Torino (IT))

Contribution ID: 25

Type: **not specified**

**tbd**

Contribution ID: 26

Type: **not specified**

## Quarkyonic or Baryquark matter?

*Thursday, February 9, 2023 9:30 AM (30 minutes)*

**Presenter:** Dr VOVCHENKO, Volodymyr (Lawrence Berkeley National Laboratory)

Contribution ID: 27

Type: **not specified**

## **The shear viscosity of parton matter under two-body scatterings**

*Thursday, February 9, 2023 10:00 AM (30 minutes)*

**Presenter:** LIN, Zi-Wei (East Carolina University)

Contribution ID: 28

Type: **not specified**

## **Toward unbiased flow measurements in LHC pp collisions**

*Thursday, February 9, 2023 5:30 PM (30 minutes)*

**Presenter:** JI, Su-Jeong (Pusan National University (KR))

Contribution ID: 29

Type: **not specified**

## **The MUSES collaboration**

*Thursday, February 9, 2023 11:30 AM (30 minutes)*

**Presenter:** RATTI, Claudia

Contribution ID: **30**

Type: **not specified**

## **Predicting randomness in relativistic hydrodynamics**

*Thursday, February 9, 2023 11:00 AM (30 minutes)*

**Presenter:** STEPHANOV, Misha (UIC)

Contribution ID: 31

Type: **not specified**

## Quarkonium transport in strongly coupled plasmas

*Thursday, February 9, 2023 6:00 PM (30 minutes)*

**Presenter:** SCHEIHING HITSCHFELD, Bruno Sebastian (Massachusetts Institute of Technology)



Contribution ID: **32**

Type: **not specified**

**tbd**

**Presenter:** DA CRUZ THIAGO, Fajardo

Contribution ID: 33

Type: **not specified**

## **sPHENIX: Status and Plans**

*Friday, February 10, 2023 11:30 AM (30 minutes)*

**Presenter:** Prof. KNOSPE, Anders Garritt (Lehigh University)

Contribution ID: **34**

Type: **not specified**

## **Workshop summary and discussion**

*Friday, February 10, 2023 12:00 PM (1 hour)*

Contribution ID: 35

Type: **not specified**

## **ALICE 3 - physics and detector plans**

*Friday, February 10, 2023 10:00 AM (30 minutes)*

**Presenter:** BELLWIED, Rene (University of Houston (US))

Contribution ID: **36**

Type: **not specified**

**tbd**

**Presenter:** ZHANG, Chunjian (Stony Brook University)

Contribution ID: 37

Type: **not specified**

**tbd**

**Presenter:** TAWFIK, Abdel Nasser (ENHEP Egyptian Network of High Energy Physics (EG))

Contribution ID: **38**

Type: **not specified**

## **Panel Discussion on future projects in Nuclear Physics**

*Saturday, February 11, 2023 9:00 AM (3 hours)*

**Presenter:** BELLWIED, Rene (University of Houston (US))

Contribution ID: 39

Type: **not specified**

## **Unfolding the effects of final-state interactions and quantum statistics in two-particle angular correlations**

*Thursday, February 9, 2023 9:00 AM (30 minutes)*

**Presenter:** GRACZYKOWSKI, Lukasz Kamil (Warsaw University of Technology (PL))



Contribution ID: 40

Type: **not specified**

## **Study of multiplicity-dependent charmonia production in p+p collisions at PHENIX**

*Friday, February 10, 2023 9:00 AM (30 minutes)*

**Presenter:** OH, Jongho (Pusan National University (KR))

Contribution ID: 41

Type: **not specified**

## **Systematic study of the energy loss in QGP at RHIC-PHENIX**

*Friday, February 10, 2023 9:30 AM (30 minutes)*

**Presenter:** Dr SHIMOMURA, Maya (Nara Women's University (JP))

Contribution ID: 42

Type: **not specified**

## **Di-electron measurements at the LHC - status and perspectives**

*Friday, February 10, 2023 11:00 AM (30 minutes)*

**Presenter:** APPELSHAEUSER, Harald (Goethe University Frankfurt (DE))