## Zimányi School 2021

# **Report of Contributions**

Zimányi School · · · / Report of Contributions

Opening

Contribution ID: 1

Type: not specified

## Opening

Monday, 6 December 2021 08:50 (3 minutes)

**Presenter:** LEVAI, Peter (Wigner Research Centre for Physics (Wigner RCP) (HU)) **Session Classification:** Vorticity and Spin Zimányi School  $\cdots ~$  / Report of Contributions

Welcome

Contribution ID: 2

Type: not specified

### Welcome

Monday, 6 December 2021 08:53 (3 minutes)

Presenter: KATZ, Sandor

Session Classification: Vorticity and Spin

Searches for chiral anomalies with …

Contribution ID: 3

Type: not specified

### Searches for chiral anomalies with ALICE

Monday, 6 December 2021 08:56 (25 minutes)

**Presenter:** CHRISTAKOGLOU, Panos (Nikhef National institute for subatomic physics (NL)) **Session Classification:** Vorticity and Spin

Spin hydrodynamics: Motivation ····

Contribution ID: 4

Type: not specified

## Spin hydrodynamics: Motivation and Basics

Monday, 6 December 2021 09:21 (18 minutes)

**Presenter:** SINGH, Rajeev (Institute of Nuclear Physics Polish Academy of Sciences) **Session Classification:** Vorticity and Spin

Helical vortical effects for thermal …

Contribution ID: 5

Type: not specified

# Helical vortical effects for thermal fermions and polarization asymmetry

*Monday, 6 December 2021 09:39 (20 minutes)* 

**Presenters:** AMBRUS, Victor Eugen (West University of Timisoara (RO)); AMBRUS, Victor Eugen (West University of Timisoara)

Session Classification: Vorticity and Spin

Zimányi School ··· / Report of Contributions

Spin polarization dynamics in the …

Contribution ID: 6

Type: not specified

# Spin polarization dynamics in the non-boost invariant background

*Monday, 6 December 2021 09:59 (20 minutes)* 

Presenter:SOPHYS, Gabriel (IFJ PAN)Session Classification:Vorticity and Spin

Zimányi School · · · / Report of Contributions

On measurements of Lambda tra ...

Contribution ID: 7

Type: not specified

#### On measurements of Lambda transverse polarization in p+p interactions within NA61/SHINE at the CERN SPS

Monday, 6 December 2021 10:19 (18 minutes)

Presenter: BONDAR, Yehor (Jan Kochanowski University (PL))

Session Classification: Vorticity and Spin

Dissipative hydrodynamics as a g  $\,\cdots\,$ 

Contribution ID: 8

Type: not specified

### Dissipative hydrodynamics as a gauge theory

Monday, 6 December 2021 11:00 (25 minutes)

**Presenters:** TORRIERI, Giorgio (IFGW, Unicamp); TORRIERI, Giorgio **Session Classification:** Dissipative Hydrodynamics

Thermodynamics and dissipation  $\cdots$ 

Contribution ID: 9

Type: not specified

### Thermodynamics and dissipation in quantum fluids

*Monday, 6 December 2021 11:25 (25 minutes)* 

**Presenter:** VÁN, Peter (Wigner RCP)

Session Classification: Dissipative Hydrodynamics

The controversial fate of super- ···

Contribution ID: 10

Type: not specified

# The controversial fate of super-luminal perturbations

*Monday, 6 December 2021 12:15 (18 minutes)* 

**Presenter:** GAVASSINO, Lorenzo

Session Classification: Dissipative Hydrodynamics

Neutron star dissipative hydrody  $\cdots$ 

Contribution ID: 11

Type: not specified

### Neutron star dissipative hydrodynamics

Monday, 6 December 2021 11:50 (25 minutes)

**Presenters:** HASKELL, Brynmor (The University of Melbourne); HASKELL, Brynmor (Nicolaus Copernicus Astronomical Center, Polish Academy of Sciences)

Session Classification: Dissipative Hydrodynamics

New solutions of non relativistic, …

Contribution ID: 12

Type: not specified

# New solutions of non relativistic, viscous hydrodynamics

Monday, 6 December 2021 12:33 (18 minutes)

**Presenter:** KASZA, Gábor (Eötvös Loránd University) **Session Classification:** Dissipative Hydrodynamics

Static quark-antiquark interaction ···

Contribution ID: 13

Type: not specified

# Static quark-antiquark interaction at finite temperature on fine lattices

Monday, 6 December 2021 14:00 (25 minutes)

**Presenters:** WEBER, Johannes Heinrich (Munich University of Technology (TUM)); WEBER, Johannes Heinrich (Humboldt University of Berlin)

Session Classification: Heavy Flavors

Lattice determination of the heav ...

Contribution ID: 14

Type: not specified

## Lattice determination of the heavy quark diffusion constant

Monday, 6 December 2021 14:25 (25 minutes)

**Presenters:** LEINO, Viljami (Technical University of Munich (TUM)); LEINO, Viljami (University of Helsinki); LEINO, Viljami (TuM)

Session Classification: Heavy Flavors

J/Psi in jets with CMS

Contribution ID: 15

Type: not specified

## J/Psi in jets with CMS

Monday, 6 December 2021 14:50 (25 minutes)

**Presenter:** NGUYEN, Matthew (Centre National de la Recherche Scientifique (FR)) **Session Classification:** Heavy Flavors

Monte Carlo simulations of Upsil ...

Contribution ID: 16

Type: not specified

# Monte Carlo simulations of Upsilon Meson production

Monday, 6 December 2021 15:15 (18 minutes)

Presenter: CESKA, Jakub (Faculty of Nuclear Sciences and Physical Engineering, Czech Tec)Session Classification: Heavy Flavors

Transport properties of the QGP  $\cdots$ 

Contribution ID: 17

Type: not specified

# Transport properties of the QGP with strange and charm quark quasiparticles

Monday, 6 December 2021 15:33 (18 minutes)

**Presenter:** MYKHAYLOVA, Valeriya **Session Classification:** Heavy Flavors

Physics with tagged protons in CMS

Contribution ID: 18

Type: not specified

## Physics with tagged protons in CMS

*Monday, 6 December 2021 18:30 (25 minutes)* 

Presenter: ROYON, Christophe (The University of Kansas (US))Session Classification: Night Shift: Forward Physics and the Odderon

From Elastic Scattering to Central ···

Contribution ID: 19

Type: not specified

#### From Elastic Scattering to Central Exclusive Production: Physics with Froward Protons at RHIC

Monday, 6 December 2021 18:55 (25 minutes)

**Presenter:** GURYN, Wlodek (Brookhaven National Laboratory)**Session Classification:** Night Shift: Forward Physics and the Odderon

Properties of the Odderon as Extr ...

Contribution ID: 20

Type: not specified

#### Properties of the Odderon as Extracted from Experimental Data - a critical review of recent results

*Monday, 6 December 2021 19:20 (25 minutes)* 

**Presenters:** CSORGO, Tamas (Wigner Research Centre for Physics (Wigner RCP) (HU)); CSORGO, Tamas (Harvard University)

Session Classification: Night Shift: Forward Physics and the Odderon

The first experimental observatio  $\cdots$ 

Contribution ID: 21

Type: not specified

# The first experimental observation of odderon exchange

Tuesday, 7 December 2021 09:00 (25 minutes)

**Presenters:** NEMES, Frigyes Janos (CERN (also at Wigner RCP Budapest, Hungary)); NEMES, Frigyes (MTA KFKI)

Session Classification: Odderon and Diffraction

H(x) scaling and Levy description …

Contribution ID: 22

Type: not specified

# H(x) scaling and Levy description of elastic pp and ppbar scattering

*Tuesday, 7 December 2021 09:25 (25 minutes)* 

Presenters: STER, Andras (Hungarian Academy of Sciences (HU)); STER, Andras (KFKI-RMKI)

Session Classification: Odderon and Diffraction

H(x) scaling and the pp and pbarp  $\cdots$ 

Contribution ID: 23

Type: not specified

## H(x) scaling and the pp and pbarp slope B(s,t)

*Tuesday, 7 December 2021 09:50 (18 minutes)* 

**Presenters:** SZANYI, Istvan (Hungarian Academy of Sciences (HU)); SZANYI, István (Eötvös Loránd University)

Session Classification: Odderon and Diffraction

Understanding Neutrino Beams

Contribution ID: 24

Type: not specified

## **Understanding Neutrino Beams**

Tuesday, 7 December 2021 10:08 (25 minutes)

**Presenter:** NAGAI, Yoshikazu (Eötvös Loránd University (HU)) **Session Classification:** Odderon and Diffraction

Early time dynamics of the QGP

Contribution ID: 25

Type: not specified

## Early time dynamics of the QGP

Tuesday, 7 December 2021 11:00 (25 minutes)

**Presenter:** SCHLICHTING, Soeren (Universität Bielefeld) **Session Classification:** Hydrodynamics and Transport

Constraining the initial condition  $\cdots$ 

Contribution ID: 26

Type: not specified

# Constraining the initial conditions of heavy-ion collision

*Tuesday, 7 December 2021 11:25 (20 minutes)* 

**Presenters:** ZHOU, You (Niels Bohr Institute (DK)); ZHOU, You (University of Arizona (US)) **Session Classification:** Hydrodynamics and Transport

Difference between flow of proto ...

Contribution ID: 27

Type: not specified

### Difference between flow of protons and antiprotons

Tuesday, 7 December 2021 12:30 (20 minutes)

**Presenters:** STEFANIAK, Maria; STEFANIAK, Maria (Warsaw University Of Technology); STEFANIAK, Maria (Warsaw University of Technology / Subatech)

Session Classification: Hydrodynamics and Transport

Zimányi School · · · / Report of Contributions

Anisotropic flow decorrelation in ···

Contribution ID: 28

Type: not specified

#### Anisotropic flow decorrelation in heavy-ion collisions at RHIC-BES energies with 3D event-by-event viscous hydrodynamics

Tuesday, 7 December 2021 12:10 (20 minutes)

**Presenter:** CIMERMAN, Jakub (Faculty of Nuclear Sciences and Physical Engineering, Czech Technical University)

Session Classification: Hydrodynamics and Transport

Zimányi School ··· / Report of Contributions

Study of Multiplicity (centrality) ···

Contribution ID: 29

Type: not specified

#### Study of Multiplicity (centrality) Dependent Thermodynamic and Transport Properties at LHC within Color String Percolation Model

*Friday, 10 December 2021 14:00 (20 minutes)* 

**Presenter:** MISHRA, Aditya Nath (Wigner Research Centre for Physics Budapest, Hungary) **Session Classification:** Jets and QCD Zimányi School ··· / Report of Contributions

Correspondence between Israel- ···

Contribution ID: 30

Type: not specified

#### Correspondence between Israel-Stewart and first-order causal and stable hydrodynamics for the boost-invariant flow

*Tuesday, 7 December 2021 14:25 (25 minutes)* 

**Presenters:** DAS, ARPAN (Institute of Nuclear Physics Polish Academy of Sciences Krakow, Poland); DAS, ARPAN (Institute of Physics, Bhubaneswar); DAS, Arpan (Institute of Nuclear Physics Polish Academy of Sciences Krakow )

Session Classification: Hydrodynamics and Transport

Linear causality and stability of  $\cdots$ 

Contribution ID: 31

Type: not specified

# Linear causality and stability of third-order fluid dynamics

Tuesday, 7 December 2021 14:50 (18 minutes)

**Presenter:**BRITO, Caio (Universidade Federal Fluminense)**Session Classification:**Hydrodynamics and Transport

A quasiparticle model from a nov  $\cdots$ 

Contribution ID: 32

Type: not specified

#### A quasiparticle model from a novel Relaxation Time Approximation to the relativistic Boltzmann equation

Tuesday, 7 December 2021 15:08 (18 minutes)

**Presenter:** SOARES ROCHA, Gabriel

Session Classification: Hydrodynamics and Transport

Early time anisotropic flow scalin ...

Contribution ID: 33

Type: not specified

# Early time anisotropic flow scaling behavior from free-streaming to hydrodynamics

Tuesday, 7 December 2021 15:26 (18 minutes)

Presenter:ROCH, Hendrik (Bielefeld University)Session Classification:Hydrodynamics and Transport

Linear transverse flow responses ···

Contribution ID: 34

Type: not specified

# Linear transverse flow responses at small and large opacities in conformal kinetic theory

Tuesday, 7 December 2021 15:44 (18 minutes)

**Presenter:**WERTHMANN, Clemens (University of Bielefeld)**Session Classification:**Hydrodynamics and Transport

Particle dynamics in strong electr ····

Contribution ID: 35

Type: not specified

### Particle dynamics in strong electromagnetic fields

*Tuesday, 7 December 2021 16:30 (25 minutes)* 

**Presenters:** RAFELSKI, Johann (University of Arizona (US)); RAFELSKI, Johann (University of Arizona)

Session Classification: Plasma Dynamics and Other Topics

Covariant Linear Response for C  $\,\cdots$ 

Contribution ID: 36

Type: not specified

### **Covariant Linear Response for Collisional Plasmas**

*Tuesday, 7 December 2021 16:55 (25 minutes)* 

**Presenter:** FORMANEK, Martin (Max Planck Institute for Nuclear Physics, Heidelberg) **Session Classification:** Plasma Dynamics and Other Topics

Electromagentic Response in QGP ···

Contribution ID: 37

Type: not specified

#### Electromagentic Response in QGP in Heavy Ion Collisions

*Tuesday, 7 December 2021 17:20 (18 minutes)* 

**Presenter:** GRAYSON, Christopher

Session Classification: Plasma Dynamics and Other Topics

N =4 supersymmetric Yang-Mills ···

Contribution ID: 38

Type: not specified

#### N =4 supersymmetric Yang-Mills thermodynamics to order lambda<sup>2</sup>

Presenter: TANTARY, Ubaid (Kent State University, Kent, Ohio, USA)Session Classification: Plasma Dynamics and Other Topics

How to find a Quantum Pion Liq  $\,\cdots\,$ 

Contribution ID: 39

Type: not specified

### How to find a Quantum Pion Liquid in cold, dense QCD

Tuesday, 7 December 2021 17:38 (25 minutes)

**Presenter:** PISARSKI, Robert (Brookhaven National Lab.) **Session Classification:** Plasma Dynamics and Other Topics

Two-particle correlation at the B  $\,\cdots\,$ 

Contribution ID: 40

Type: not specified

### Two-particle correlation at the BES program at STAR

Wednesday, 8 December 2021 09:00 (25 minutes)

**Presenter:** ZBROSZCZYK, Hanna (Warsaw University of Technology (PL)) **Session Classification:** Femtoscopy

Bose-Einstein correlations in pPb …

Contribution ID: 41

Type: not specified

#### Bose-Einstein correlations in pPb collisions at LHCb

Wednesday, 8 December 2021 09:25 (18 minutes)

**Presenter:** MALECKI, Bartosz Piotr (Polish Academy of Sciences (PL)) **Session Classification:** Femtoscopy

Non-decay photon HBT analysis i ...

Contribution ID: 42

Type: not specified

#### Non-decay photon HBT analysis in Ag+Ag@1.58 A GeV collisions at the HADES experiment

Wednesday, 8 December 2021 09:43 (18 minutes)

**Presenters:** GRUNWALD, Mateusz (Politechnika Warszawska, Warsaw, Poland); GRUNWALD, Mateusz (Warsaw University of Technology)

Session Classification: Femtoscopy

Femtoscopy of particles with stra ...

Contribution ID: 43

Type: not specified

### Femtoscopy of particles with strange quarks

Wednesday, 8 December 2021 10:01 (18 minutes)

Presenters: PAWŁOWSKA, Diana (Warsaw University of Technology); PAWŁOWSKA, Diana

Session Classification: Femtoscopy

Zimányi School · · · / Report of Contributions

Emission asymmetry seen by the  $\cdots$ 

Contribution ID: 44

Type: not specified

### Emission asymmetry seen by the femtoscopy

Wednesday, 8 December 2021 10:19 (18 minutes)

Presenter: SZYMAŃSKI, Paweł

Session Classification: Femtoscopy

Symmetric Levy HBT at NA61/S ...

Contribution ID: 45

Type: not specified

### Symmetric Levy HBT at NA61/SHINE with Ar+Sc

Wednesday, 8 December 2021 11:43 (18 minutes)

**Presenter:** PORFY, Barnabas (Wigner Research Centre for Physics (Wigner RCP) (HU)) **Session Classification:** Femtoscopy and Search for the CEP

Investigating the two-particle so ...

Contribution ID: 46

Type: not specified

#### Investigating the two-particle source function in 200 GeV Au+Au collisions with EPOS

Wednesday, 8 December 2021 11:25 (18 minutes)

**Presenters:** KINCSES, Dániel (Eötvös Loránd University); KINCSES, Dániel (Eötvös Loránd University Budapest)

Session Classification: Femtoscopy and Search for the CEP

System size and energy dependen ...

Contribution ID: 47

Type: not specified

### System size and energy dependence of strangeness production from NA61/SHINE at the CERN SPS

Wednesday, 8 December 2021 12:01 (18 minutes)

**Presenters:** PANOVA, Oleksandra; PANOVA, Oleksandra (Jan Kochanowski University (PL)) **Session Classification:** Femtoscopy and Search for the CEP

Search for critical point of strong ...

Contribution ID: 48

Type: not specified

## Search for critical point of strongly interacting matter by the NA61/SHINE at CERN SPS

Wednesday, 8 December 2021 12:19 (18 minutes)

**Presenter:** ADHIKARY, Haradhan (Jan Kochanowski University (PL)) **Session Classification:** Femtoscopy and Search for the CEP

Exploring dense nuclear matter in …

Contribution ID: 49

Type: not specified

## Exploring dense nuclear matter in heavy-ion collisions at FAIR/NICA energies

Wednesday, 8 December 2021 14:00 (25 minutes)

**Presenter:** SENGER, Peter (GSI)

Session Classification: Phase Diagram and Compact Stars

Quark-hadron continuity for neu ...

Contribution ID: 50

Type: not specified

### Quark-hadron continuity for neutron stars

Wednesday, 8 December 2021 14:25 (25 minutes)

Presenter: KOJO, Toru (Central China Normal University)Session Classification: Phase Diagram and Compact Stars

Zimányi School · · · / Report of Contributions

Constraining quark matter inside ···

Contribution ID: 51

Type: not specified

### Constraining quark matter inside hybrid stars

Wednesday, 8 December 2021 14:50 (18 minutes)

Presenters: TAKÁTSY, János (Wigner RCP); TAKÁTSY, János (Wigner Research Centre for Physics)

Session Classification: Phase Diagram and Compact Stars

Radial and axial non-radial oscill ...

Contribution ID: 52

Type: not specified

### Radial and axial non-radial oscillation modes of isolated compact stars

Wednesday, 8 December 2021 15:08 (20 minutes)

Presenter: BARTA, Dániel (Wigner RCP)

Session Classification: Phase Diagram and Compact Stars

Probing strongly interacting mat ...

Contribution ID: 53

Type: not specified

### Probing strongly interacting matter properties with compact stars

Wednesday, 8 December 2021 15:28 (18 minutes)

**Presenter:** GIANGRANDI, Edoardo (University of Coimbra, Coimbra, Portugal) **Session Classification:** Phase Diagram and Compact Stars

Advancements in the Einstein Te

Contribution ID: 54

Type: not specified

### Advancements in the Einstein Telescope project

Wednesday, 8 December 2021 15:46 (20 minutes)

**Presenter:** KOVACS, Robert (Hungarian Academy Database (AAT)) **Session Classification:** Phase Diagram and Compact Stars

Search for the Chiral Magnetic Ef  $\,\cdots\,$ 

Contribution ID: 55

Type: not specified

### Search for the Chiral Magnetic Effect with isobar collisions

Wednesday, 8 December 2021 16:35 (25 minutes)

**Presenter:**TRIBEDY, Prithwish (Brookhaven National Lab)**Session Classification:**Vorticity, Chirality, Polarization

Interpretation of Lambda polaris ...

Contribution ID: 56

Type: not specified

#### Interpretation of Lambda polarisation measurements

Wednesday, 8 December 2021 17:00 (25 minutes)

**Presenter:** FLORKOWSKI, Wojciech (Jagiellonian University) **Session Classification:** Vorticity, Chirality, Polarization

Kinetic theory for massive spin-1 ···

Contribution ID: 57

Type: not specified

### Kinetic theory for massive spin-1 particles in electromagnetic fields

Wednesday, 8 December 2021 17:25 (18 minutes)

**Presenter:** WAGNER, David (Institute for Theoretical Physics, Goethe University, Frankfurt, Germany)

Session Classification: Vorticity, Chirality, Polarization

Generalized Framework: Canoni

Contribution ID: 58

Type: not specified

#### Generalized Framework: Canonical Dissipative Spin Hydrodynamics

Wednesday, 8 December 2021 17:43 (18 minutes)

Presenter:DAHER, Asaad (IFJ PAN, Krakow, Poland)Session Classification:Vorticity, Chirality, Polarization

Polarization effects at finite temp ...

Contribution ID: 59

Type: not specified

# Polarization effects at finite temperature and magnetic field

Wednesday, 8 December 2021 18:01 (18 minutes)

Presenter:SZYMANSKI, Michal (University of Wroclaw)Session Classification:Vorticity, Chirality, Polarization

Angular correlations of particle y  $\cdots$ 

Contribution ID: 60

Type: not specified

### Angular correlations of particle yield ratios (poster)

Wednesday, 8 December 2021 18:20 (1h 40m)

**Presenter:** PETROV, Vitalii (St Petersburg State University (RU)) **Session Classification:** Posters and Wine

Phenomenology of the Tensor M  $\,\cdots\,$ 

Contribution ID: 61

Type: not specified

### Phenomenology of the Tensor Mesons (poster)

Wednesday, 8 December 2021 18:20 (1h 40m)

**Presenters:** JAFARZADE, SHAHRIYAR (Jan Kochanowski University of Kielce, Poland); JAFARZADE, Shahriyar (CERN)

Session Classification: Posters and Wine

Effect of an expanding charge clo ...

Contribution ID: 62

Type: not specified

#### Effect of an expanding charge cloud on two-particle Bose-Einstein correlations (poster)

Wednesday, 8 December 2021 18:20 (1h 40m)

**Presenter:** MOHAMMED, Hemida (Fayoum University (EG)) **Session Classification:** Posters and Wine

What have we really learned abo  $\,\cdots\,$ 

Contribution ID: 63

Type: not specified

#### What have we really learned about QGP droplets?

Thursday, 9 December 2021 14:00 (45 minutes)

**Presenter:** NAGLE, James Lawrence (University of Colorado Boulder) **Session Classification:** Ortvay Colloquium

Femtoscopy in CBM

Contribution ID: 64

Type: not specified

### Femtoscopy in CBM

Wednesday, 8 December 2021 11:00 (25 minutes)

**Presenters:** WIELANEK, Daniel Henryk (Warsaw University of Technology (PL)); WIELANEK, Daniel (Warsaw University of Technology)

Session Classification: Femtoscopy and Search for the CEP

Measuring pseudorapidity densit  $\cdots$ 

Contribution ID: 65

Type: not specified

### Measuring pseudorapidity densities with the STAR EPD

Presenter: CSANAD, Mate (Eotvos University, Budapest)

Session Classification: Posters and Wine

Chiral criticality and the role of r  $\cdots$ 

Contribution ID: 66

Type: not specified

### Chiral criticality and the role of repulsive interactions in hot hadronic matter

Thursday, 9 December 2021 09:00 (25 minutes)

**Presenters:** MARCZENKO, Michał; MARCZENKO, Michał (University of Wrocław) **Session Classification:** QCD and Hadronization

Instabilities in Classical Chromod ....

Contribution ID: 67

Type: not specified

### **Instabilities in Classical Chromodynamics**

Thursday, 9 December 2021 09:25 (18 minutes)

**Presenter:** BAZAK, Sylwia (Jan Kochanowski University) **Session Classification:** QCD and Hadronization

Initial conditions for hydrodyna ···

Contribution ID: 68

Type: not specified

## Initial conditions for hydrodynamic simulations of collisions at RHIC-BES energies

Thursday, 9 December 2021 10:19 (18 minutes)

**Presenter:** STERBA, Jakub (Czech Technical University, Prague, Czech Republic)**Session Classification:** QCD and Hadronization

One-loop HTL thermodynamics o

Contribution ID: 69

Type: not specified

### One-loop HTL thermodynamics of magnetized QCD matter

Thursday, 9 December 2021 10:01 (18 minutes)

**Presenter:** KARMAKAR, Bithika (Saha Institute of Nuclear Physics, Kolkata, India) **Session Classification:** QCD and Hadronization Zimányi School · · · / Report of Contributions

Impact of hadronisation process a ···

Contribution ID: 70

Type: not specified

# Impact of hadronisation process and hadronic cascades on the 2nd order susceptibilities studied through the BES with EPOS 4

Thursday, 9 December 2021 09:43 (18 minutes)

**Presenter:** JAHAN, Johannes (Subatech (FR)) **Session Classification:** QCD and Hadronization

Scattering theory and thermodyn  $\cdots$ 

Contribution ID: 71

Type: not specified

### Scattering theory and thermodynamics

Thursday, 9 December 2021 11:00 (25 minutes)

**Presenter:** LO, Pok Man (University of Wroclaw)

Session Classification: Effective Theories and Transport

Non-Equilibrium Transport of Co $\,\cdots\,$ 

Contribution ID: 72

Type: not specified

#### Non-Equilibrium Transport of Conserved Charges in High-Energy Heavy Ion Collisions

Thursday, 9 December 2021 11:25 (18 minutes)

Presenter:PLASCHKE, Philip (Bielefeld University)Session Classification:Effective Theories and Transport

Thermal dileptons in Coarse-  $\cdots$ 

Contribution ID: 73

Type: not specified

#### Thermal dileptons in Coarse-Grained Transport and Hydrodynamics

Thursday, 9 December 2021 11:43 (18 minutes)

**Presenter:** WIEST, Maximilian (Institute for Nuclear Physics, Technical University of Darmstadt, Darmstadt, Germany)

Session Classification: Effective Theories and Transport

Finite volume effects via low mo

Contribution ID: 74

Type: not specified

## Finite volume effects via low momentum cutoff in the ELSM

Thursday, 9 December 2021 12:01 (18 minutes)

**Presenter:** KOVÁCS, Győző (Wigner RCP)

Session Classification: Effective Theories and Transport

Anti-nuclei production at ALICE

Contribution ID: 75

Type: not specified

### Anti-nuclei production at ALICE

Thursday, 9 December 2021 12:19 (25 minutes)

**Presenter:** PINTO, Chiara (Technische Universitaet Muenchen (DE)) **Session Classification:** Effective Theories and Transport

Tracing the emergence of collecti ...

Contribution ID: 76

Type: not specified

# Tracing the emergence of collectivity in the small systems

Thursday, 9 December 2021 15:00 (25 minutes)

Presenter:SINGH, Pragya (University of Bielefeld)Session Classification:Small and Very Small Systems

Glueball glueball scattering and t  $\,\cdots\,$ 

Contribution ID: 77

Type: not specified

### Glueball glueball scattering and the Glueballonium

Thursday, 9 December 2021 15:25 (18 minutes)

**Presenter:** TROTTI, Enrico

Session Classification: Small and Very Small Systems

Diphoton production in heavy-ion  $\cdots$ 

Contribution ID: 78

Type: not specified

#### **Diphoton production in heavy-ion UPC**

Thursday, 9 December 2021 15:43 (18 minutes)

**Presenters:** KLUSEK-GAWENDA, Mariola (Institute of Nuclear Physics Polish Academy of Sciences); KŁUSEK-GAWENDA, Mariola (IFJ PAS)

Session Classification: Small and Very Small Systems

Feasibility studies of charge exch ...

Contribution ID: 79

Type: not specified

# Feasibility studies of charge exchange measurements in pp collisions

Thursday, 9 December 2021 16:01 (18 minutes)

**Presenter:** FEHERKUTI, Anna (Eotvos Lorand University (HU)) **Session Classification:** Small and Very Small Systems Zimányi School ··· / Report of Contributions

Validation of Glauber model for c …

Contribution ID: 80

Type: not specified

# Validation of Glauber model for centrality determination in small system collisions

Thursday, 9 December 2021 16:19 (18 minutes)

**Presenter:** RAMASUBRAMANIAN, Niveditha (Stony Brook University) **Session Classification:** Small and Very Small Systems

Inclusive and heavy-flavor jet su ...

Contribution ID: 81

Type: not specified

## Inclusive and heavy-flavor jet substructure measurements with ALICE

Thursday, 9 December 2021 17:15 (25 minutes)

**Presenter:** VERTESI, Robert (Wigner Research Centre for Physics (Wigner RCP) (HU)) **Session Classification:** Heavy Flavors

Production of heavy-flavoured m ···

Contribution ID: 82

Type: not specified

## Production of heavy-flavoured mesons and jets in dependence on Underlying Event acivity

Thursday, 9 December 2021 17:40 (18 minutes)

**Presenter:** GYULAI, Laszlo (Wigner Research Centre for Physics (Wigner RCP) (HU)) **Session Classification:** Heavy Flavors

Event-activity-dependent produc ...

Contribution ID: 83

Type: not specified

## Event-activity-dependent production of charmed baryons at LHC energies

Thursday, 9 December 2021 17:58 (18 minutes)

**Presenters:** VARGA, Zoltan (Wigner Research Centre for Physics (Wigner RCP) (HU)); VARGA, Zoltán

Session Classification: Heavy Flavors

Zimányi School ··· / Report of Contributions

Enhanced production of charmed …

Contribution ID: 84

Type: not specified

#### Enhanced production of charmed Lambda\_c, Sigma\_c and Xi\_c baryons in simulations

Thursday, 9 December 2021 18:16 (18 minutes)

**Presenter:** MISAK, Anett (Wigner Research Centre for Physics (Wigner RCP) (HU)) **Session Classification:** Heavy Flavors Zimányi School · · · / Report of Contributions

Heavy-flavour measurements wit ....

Contribution ID: 85

Type: not specified

# Heavy-flavour measurements with the ALICE experiment

Thursday, 9 December 2021 18:34 (18 minutes)

**Presenter:** FRAJNA, Eszter (Wigner Research Centre for Physics (Wigner RCP) (HU)) **Session Classification:** Heavy Flavors

Heavy-flavour hadron production ···

Contribution ID: 86

Type: not specified

# Heavy-flavour hadron production as a function of charged-particle multiplicity measured by ALICE

Thursday, 9 December 2021 18:52 (18 minutes)

**Presenters:** MDHLULI, Joy; MDHLULI, Joyful Elma (University of the Witwatersrand (ZA)) **Session Classification:** Heavy Flavors

QCD thermodynamics at finite b …

Contribution ID: 87

Type: not specified

# QCD thermodynamics at finite baryon density from lattice simulations

Friday, 10 December 2021 09:00 (25 minutes)

**Presenter:** PASZTOR, Attila (Eötvös University) **Session Classification:** QCD Zimányi School · · · / Report of Contributions

Corrections to the hadron resona  $\cdots$ 

Contribution ID: 88

Type: not specified

#### Corrections to the hadron resonance gas from lattice QCD and their effect on fluctuation-ratios at finite density

Friday, 10 December 2021 09:25 (18 minutes)

Presenter:PESZNYAK, DavidSession Classification:QCD

Pressure contribution of bound st …

Contribution ID: 89

Type: not specified

### Pressure contribution of bound states and resonances at nonzero T

*Friday, 10 December 2021 09:43 (25 minutes)* 

Presenter:GIACOSA, Francesco (Kielce University)Session Classification:QCD

Theta-QCD=Pi at 133.8 MeV in the …

Contribution ID: 90

Type: not specified

### Theta-QCD=Pi at 133.8 MeV in the Big Bang

*Friday, 10 December 2021 10:08 (20 minutes)* 

Presenter:BRAY-ALI, Noah (Mount Saint Mary's University, Los Angeles, USA)Session Classification:QCD

The ALICE Fast Interaction Trigg  $\cdots$ 

Contribution ID: 91

Type: not specified

### The ALICE Fast Interaction Trigger Upgrade

*Friday, 10 December 2021 11:00 (20 minutes)* 

Presenter: LOKOS, Sandor (Institute of Nuclear Physics Polish Academy of Sciences (PL))Session Classification: Detector Development and Jets

Zimányi School · · · / Report of Contributions

Application of a statistically base ...

Contribution ID: 92

Type: not specified

#### Application of a statistically based, iterative image reconstruction algorithm for proton Computed Tomography

*Friday, 10 December 2021 11:20 (18 minutes)* 

**Presenter:** SUDAR, Akos (Wigner Research Centre for Physics (Wigner RCP) (HU)) **Session Classification:** Detector Development and Jets

Status and prospect of the ALICE  $\cdots$ 

Contribution ID: 93

Type: not specified

#### Status and prospect of the ALICE Inner Tracking System

*Friday, 10 December 2021 11:38 (18 minutes)* 

**Presenter:**ISAKOV, Artem (Czech Academy of Sciences (CZ))**Session Classification:**Detector Development and Jets

Studying hadronization with Mac ....

Contribution ID: 94

Type: not specified

# Studying hadronization with Machine Learning techniques and event variables

*Friday, 10 December 2021 11:56 (20 minutes)* 

**Presenter:** BIRO, Gabor (Wigner Research Centre for Physics (Wigner RCP) (HU)) **Session Classification:** Detector Development and Jets

Implementation of machine learn  $\cdots$ 

Contribution ID: 95

Type: not specified

# Implementation of machine learning tools in heavy-ion collisions at the LHC

Friday, 10 December 2021 12:16 (18 minutes)

**Presenters:** MALLICK, Neelkamal (Indian Institute of Technology, Indore); MALLICK, Neelkamal (Indian Institute of Technology Indore)

Session Classification: Detector Development and Jets

Quantifying the Underlying Event

Contribution ID: 96

Type: not specified

### Quantifying the Underlying Event

Tuesday, 7 December 2021 11:45 (25 minutes)

**Presenters:** BARNAFOLDI, Gergely (Hungarian Academy of Sciences (HU)); BARNAFOLDI, Gergely (Hungarian Academy of Sciences (HU)); BARNAFOLDI, Gergely Gabor (Wigner RCP Hungarian Academy of Sciences (HU))

Session Classification: Hydrodynamics and Transport

Coupling jets to hydro: multiple s ...

Contribution ID: 97

Type: not specified

## Coupling jets to hydro: multiple scatterings and temperature gradients

Friday, 10 December 2021 14:20 (20 minutes)

**Presenters:** BARATA, Joao; BARATA, João **Session Classification:** Jets and QCD

Dynamically groomed jet radius i ...

Contribution ID: 98

Type: not specified

## Dynamically groomed jet radius in heavy-ion collisions

*Friday, 10 December 2021 14:40 (18 minutes)* 

Presenter:TAKACS, Adam (University of Bergen)Session Classification:Jets and QCD

Zimányi School ··· / Report of Contributions

Higher Order Corrections to Tra ...

Contribution ID: 99

Type: not specified

#### Higher Order Corrections to Transverse Momentum Broadening in a Weakly Coupled Quark Gluon Plasma

*Friday, 10 December 2021 14:58 (18 minutes)* 

**Presenter:** WEITZ, Eamonn (Subatech, Nantes, France) **Session Classification:** Jets and QCD

Exploring jet transport coefficien ...

Contribution ID: 100

Type: not specified

# Exploring jet transport coefficients in the strongly interacting quark-gluon plasma

*Friday, 10 December 2021 15:16 (18 minutes)* 

Presenter:GRISHMANOVSKII, Ilia (ITP, Frankfurt, Germany)Session Classification:Jets and QCD

Zimányi School · · · / Report of Contributions

Jet transport coefficient q-hat in l ...

Contribution ID: 101

Type: not specified

### Jet transport coefficient q-hat in lattice QCD

*Friday, 10 December 2021 15:34 (20 minutes)* 

**Presenters:** KUMAR, Amit (McGill University, Montreal, Canada); KUMAR, Amit **Session Classification:** Jets and QCD

Introduction to Intermediate ene

Contribution ID: 102

Type: not specified

## Introduction to Intermediate energies and EoS research

Friday, 10 December 2021 16:30 (15 minutes)

**Presenters:** VERDE, Giuseppe (INFN); VERDE, Giuseppe (INFN, Sezione di Catania) **Session Classification:** Intermediate Energies

The nuclear equation of state: fro  $\cdots$ 

Contribution ID: 103

Type: not specified

# The nuclear equation of state: from experiments to astrophysical observations

Friday, 10 December 2021 16:45 (25 minutes)

Presenter:VIDANA, Isaac (University of Coimbra)Session Classification:Intermediate Energies

Zimányi School ··· / Report of Contributions

Time-resolved equilibration: how ···

Contribution ID: 104

Type: not specified

#### Time-resolved equilibration: how to measure the motion of protons and neutrons on a sub-zeptosecond timeframe

*Friday, 10 December 2021 17:10 (25 minutes)* 

**Presenter:** Dr MCINTOSH, Alan (Texas A&M University Cyclotron Institute, College Station, Texas, USA)

Session Classification: Intermediate Energies

EoS and symmetry energy experi ...

Contribution ID: 105

Type: not specified

# EoS and symmetry energy experimental studies at GSI/FAIR energies

Friday, 10 December 2021 17:35 (25 minutes)

**Presenter:** RUSSOTTO, Paolo (INFN - National Institute for Nuclear Physics)

Session Classification: Intermediate Energies

Symmetry energy studied with …

Contribution ID: 106

Type: not specified

## Symmetry energy studied with INDRA-FAZIA at GANIL

*Friday, 10 December 2021 18:00 (25 minutes)* 

**Presenter:** Dr FABLE, Quentin (L2IT, Toulouse, France) **Session Classification:** Intermediate Energies

Partial chemical equilibrium

Contribution ID: 107

Type: not specified

#### Partial chemical equilibrium

Tuesday, 7 December 2021 14:00 (25 minutes)

**Presenters:** TOMASIK, Boris (Univerzita Mateja Bela); TOMASIK, Boris (Univerzita Mateja Bela (SK))

Session Classification: Hydrodynamics and Transport

Normal and anomalous transport …

Contribution ID: 108

Type: not specified

## Normal and anomalous transport in large and small collision-systems

Monday, 6 December 2021 16:20 (25 minutes)

**Presenters:** LACEY, Roy Alphanso (Stony brook University (US)); LACEY, Roy (Stony Brook University)

Session Classification: Hydro, Transport, Centrality

Effects of subnucleon structure in …

Contribution ID: 109

Type: not specified

## Effects of subnucleon structure in small and large collision systems

Monday, 6 December 2021 16:45 (25 minutes)

**Presenter:**SCHENKE, Bjoern (Brookhaven National Lab)**Session Classification:**Hydro, Transport, Centrality

Nuclear shape imaging using hyd ...

Contribution ID: 110

Type: not specified

# Nuclear shape imaging using hydrodynamics in high-energy heavy-ion collisions

Monday, 6 December 2021 17:10 (25 minutes)

Presenter:JIA, Jiangyong (Stony Brook University (US))Session Classification:Hydro, Transport, Centrality

Chiral Magnetic Effect from  $\cdots$ 

Contribution ID: 111

Type: not specified

#### Chiral Magnetic Effect from Anomalous-Viscous Fluid Dynamics simulation framework

Monday, 6 December 2021 17:35 (25 minutes)

Presenter:SHI, Shuzhe (McGill University)Session Classification:Hydro, Transport, Centrality

Zimányi School · · · / Report of Contributions

Conference photo (on Zoom)

Contribution ID: 112

Type: not specified

### **Conference photo (on Zoom)**

Wednesday, 8 December 2021 12:37 (1 minute)

Session Classification: Femtoscopy and Search for the CEP

Zimányi School · · · / Report of Contributions

Conference photo (on Zoom)

Contribution ID: 113

Type: not specified

### **Conference photo (on Zoom)**

Wednesday, 8 December 2021 18:19 (1 minute)

Session Classification: Vorticity, Chirality, Polarization