

# **Spin and quantum features of QCD plasma**

## **Report of Contributions**

Contribution ID: 1

Type: **not specified**

## **STAR and CMS Results**

*Monday, September 16, 2024 10:00 AM (1 hour)*

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

**Session Classification:** Program

Contribution ID: 2

Type: **not specified**

## LHC Results

*Monday, September 16, 2024 11:30 AM (30 minutes)*

**Presenter:** SARKAR, Debojit (Niels Bohr Institute, Copenhagen, Denmark)

**Session Classification:** Program

Contribution ID: 3

Type: **not specified**

# Hyperon Spin polarization and Phenomenology

*Monday, September 16, 2024 4:00 PM (30 minutes)*

**Presenter:** PU, Shi (USTC)

**Session Classification:** Program

Contribution ID: 4

Type: **not specified**

## **Simulating spin polarization in high-energy heavy-ion collisions**

*Monday, September 16, 2024 2:30 PM (1 hour)*

**Presenter:** PALERMO, Andrea (Stony Brook University)

**Session Classification:** Program

Contribution ID: 5

Type: **not specified**

# Numerical developments in relativistic spin hydrodynamics

*Thursday, September 19, 2024 4:00 PM (30 minutes)*

**Presenter:** SINGH, Sushant Kumar

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TAB

Contribution ID: 6

Type: **not specified**

**TAB**

**Session Classification:** Program

Contribution ID: 7

Type: **not specified**

## Discussion

*Monday, September 16, 2024 4:30 PM (1h 30m)*

**Session Classification:** Program



Contribution ID: 8

Type: **not specified**

## **Spin hydrodynamics from the entropy principle - flaws and remedies**

*Tuesday, September 17, 2024 9:30 AM (1 hour)*

**Presenter:** FUKUSHIMA, Kenji (The University of Tokyo)

**Session Classification:** Program

Contribution ID: 9

Type: **not specified**

# Entropy production and Dissipation in Quantum-based Spin Hydrodynamics

*Tuesday, September 17, 2024 11:00 AM (30 minutes)*

**Presenter:** DAHER, Asaad (IFJ PAN)

**Session Classification:** Program

Contribution ID: **10**

Type: **not specified**

## **Hybrid approach to spin hydrodynamics**

*Tuesday, September 17, 2024 11:30 AM (30 minutes)*

**Presenter:** FLORKOWSKI, Wojciech (Jagiellonian University, Krakow, Poland)

**Session Classification:** Program

Contribution ID: **11**

Type: **not specified**

## **Discussion**

*Tuesday, September 17, 2024 12:00 PM (30 minutes)*

**Session Classification:** Program

Contribution ID: 12

Type: **not specified**

# **Anisotropic linear waves and breakdown of the momentum expansion in spin magnetohydrodynamics**

*Tuesday, September 17, 2024 2:00 PM (1 hour)*

**Presenter:** HATTORI, Koichi (Zhejiang University)

Contribution ID: 13

Type: **not specified**

## **On damping of spin waves and further developments in ideal-spin hydrodynamics**

*Tuesday, September 17, 2024 3:00 PM (30 minutes)*

**Presenter:** SHOKRI, Masoud (Goethe University)

Contribution ID: 14

Type: **not specified**

## **Hydrodynamics for QGP: novel aspects and loose ends**

*Wednesday, September 18, 2024 11:30 AM (30 minutes)*

**Presenter:** GURSOY, Umut (Utrecht University, Netherlands)

Contribution ID: 15

Type: **not specified**

## **Spin transport in condensed matter from a quantum kinetic perspective**

*Wednesday, September 18, 2024 9:30 AM (1 hour)*

**Presenter:** VALET, Thierry (Spintec, UGA, CNRS, CEA)



Contribution ID: 16

Type: **not specified**

## **On the local thermodynamic relations in relativistic spin hydrodynamics**

*Tuesday, September 17, 2024 4:00 PM (30 minutes)*

**Presenter:** SINGH, Rajeev (Institute of Nuclear Physics Polish Academy of Sciences)

Contribution ID: 17

Type: **not specified**

## **Emergent canonical spin tensor in the chiral symmetric hot QCD**

*Wednesday, September 18, 2024 11:00 AM (30 minutes)*

**Presenter:** BUZZEGOLI, Matteo (West University of Timisoara)

Contribution ID: **18**

Type: **not specified**

## Discussion

*Wednesday, September 18, 2024 12:00 PM (30 minutes)*

Contribution ID: 19

Type: **not specified**

## Spin Alignment Experiment

*Thursday, September 19, 2024 9:30 AM (1 hour)*

**Presenter:** TANG, Aihong (Brookhaven National Laboratory)

Contribution ID: 20

Type: **not specified**

## **Second-Order Gradient Effects on Spin Alignment**

*Thursday, September 19, 2024 11:00 AM (30 minutes)*

**Presenter:** ZHANG, Zhong-Hua (Fudan University)

Contribution ID: 21

Type: **not specified**

## **Theoretical advances in spin alignment**

*Thursday, September 19, 2024 11:30 AM (30 minutes)*

**Presenter:** LIU, Shuai (Hunan University)

Contribution ID: 22

Type: **not specified**

## Discussion

*Thursday, September 19, 2024 12:00 PM (30 minutes)*

Contribution ID: 23

Type: **not specified**

# Theoretical Progress on Spin Alignment in Heavy-Ion Collisions

*Thursday, September 19, 2024 2:00 PM (1 hour)*

**Presenter:** SHENG, Xin-Li (INFN Firenze)



Contribution ID: 24

Type: **not specified**

## **Towards a holographic description of hydrodynamics with spin**

*Thursday, September 19, 2024 3:00 PM (30 minutes)*

**Presenter:** YAROM, Amos (Technion)

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TBA

Contribution ID: 25

Type: **not specified**

**TBA**

Contribution ID: 26

Type: **not specified**

## Discussion

*Thursday, September 19, 2024 4:30 PM (1h 30m)*

Contribution ID: 27

Type: **not specified**

# Applications of quantum kinetic theory to heavy ion collisions

*Friday, September 20, 2024 9:30 AM (1 hour)*

**Presenter:** YANG, Di-Lun (Institute of Physics, Academia Sinica)

Contribution ID: 28

Type: **not specified**

# Quantum kinetic theory for spin one and one-half particles

*Friday, September 20, 2024 11:00 AM (1 hour)*

**Presenter:** WAGNER, David

Contribution ID: 29

Type: **not specified**

## **Kinetic Theory in Curved Space**

*Friday, September 20, 2024 12:00 PM (30 minutes)*

**Presenter:** CHIARINI, Annamaria (Goethe University)

Spin and quantu... / Report of Contributions

TBA

Contribution ID: **30**

Type: **not specified**

**TBA**

Contribution ID: 31

Type: **not specified**

## **Constraining the strength of the vector interaction from the curvature of the chiral phase transition line**

*Friday, September 20, 2024 2:00 PM (30 minutes)*

**Presenter:** CHOWDHURY, Aminul Islam (University of Chinese Academy of Sciences)



Contribution ID: **32**

Type: **not specified**

## Coffee Break

Contribution ID: 33

Type: **not specified**

## **Gauge invariant thermodynamics of rotating magnetized systems**

*Friday, September 20, 2024 2:30 PM (30 minutes)*

**Presenter:** MAMEDA, Kazuya (Tokyo University of Science)

Contribution ID: **34**

Type: **not specified**

## Discussion

*Friday, September 20, 2024 3:30 PM (1h 30m)*

Contribution ID: 35

Type: **not specified**

## Registration

*Monday, September 16, 2024 9:00 AM (45 minutes)*

Contribution ID: **36**

Type: **not specified**

## **Welcome incoming Director ECT\***

*Monday, September 16, 2024 9:45 AM (15 minutes)*

**Presenter:** VAN KOLCK, Ubirajara

Contribution ID: 37

Type: **not specified**

## Discussion

*Tuesday, September 17, 2024 4:30 PM (1h 30m)*

Contribution ID: **38**

Type: **not specified**

## **Discussion**

*Monday, September 16, 2024 12:00 PM (30 minutes)*

**Session Classification:** Program