

# The 6th International Conference on Chirality, Vorticity and Magnetic Field in Heavy Ion Collisions



## Report of Contributions

Contribution ID: 11

Type: **not specified**

## **STAR results on Isobar run: An Overview**

*Monday, 1 November 2021 09:00 (40 minutes)*

**Primary author:** CAINES, Helen (Yale)

**Presenter:** CAINES, Helen (Yale)

**Session Classification:** CME searches at RHIC and LHC

Contribution ID: **30**

Type: **not specified**

## **STAR results on Isobar run 1**

*Monday, 1 November 2021 09:40 (25 minutes)*

**Presenter:** WANG, Gang (UCLA)

**Session Classification:** CME searches at RHIC and LHC

Contribution ID: 31

Type: **not specified**

## **STAR results on Isobar run 2**

*Monday, 1 November 2021 10:05 (25 minutes)*

### **Field of Research**

**Presenter:** HU, YU

**Session Classification:** CME searches at RHIC and LHC

Contribution ID: 32

Type: **not specified**

## **STAR results on Isobar run 3**

*Monday, 1 November 2021 10:45 (25 minutes)*

**Presenter:** ZHAO, Jie (IHEP)

**Session Classification:** CME searches at RHIC and LHC

Contribution ID: 33

Type: **not specified**

## **STAR results on Isobar run 4**

*Monday, 1 November 2021 11:10 (25 minutes)*

**Presenter:** VOLOSHIN, Sergei (Wayne State)

**Session Classification:** CME searches at RHIC and LHC

Contribution ID: **34**

Type: **not specified**

## **STAR results on Isobar run 5**

*Monday, 1 November 2021 11:35 (25 minutes)*

**Presenter:** Dr ABDELRAHMAN, Niseem (University of Illinois at Chicago)

**Session Classification:** CME searches at RHIC and LHC

Contribution ID: 35

Type: **not specified**

## **Baseline for CME in Isobar Collisions—a Theorist's Perspective**

*Monday, 1 November 2021 13:20 (25 minutes)*

**Presenter:** SHI, Shuzhe (mcgill university)

**Session Classification:** Isobar run: theory



Contribution ID: 36

Type: **not specified**

## **Nuclear structure and isobar collisions**

*Monday, 1 November 2021 13:45 (25 minutes)*

**Presenter:** XU, Haojie

**Session Classification:** Isobar run: theory

Contribution ID: 37

Type: **not specified**

## Effects of nuclear structure in isobar collisions

*Monday, 1 November 2021 14:10 (25 minutes)*

### Field of Research

**Presenter:** JIANGYONG, Jia (Stony Brook University)

**Session Classification:** Isobar run: theory

Contribution ID: 38

Type: **not specified**

## **Experimental overview of hyperon polarization and vorticity**

*Tuesday, 2 November 2021 09:00 (40 minutes)*

**Presenter:** LISA, Michael (Ohio State University)

**Session Classification:** Vorticity and Hyperon Polarization

Contribution ID: 39

Type: **not specified**

## **STAR results on hyperon polarization**

*Tuesday, 2 November 2021 09:40 (25 minutes)*

**Presenter:** ADAMS, Joseph (Ohio State University)

**Session Classification:** Vorticity and Hyperon Polarization

Contribution ID: 40

Type: **not specified**

## **HADES results on hyperon polarization**

**Presenter:** KORNAS , F.

**Session Classification:** Vorticity and Hyperon Polarization

Contribution ID: 41

Type: **not specified**

## **HADES results on hyperon polarization**

*Tuesday, 2 November 2021 10:05 (25 minutes)*

**Presenter:** KORNAS, F.

**Session Classification:** Vorticity and Hyperon Polarization

Contribution ID: 42

Type: **not specified**

## **Theoretical overview of polarization and vorticity**

*Tuesday, 2 November 2021 10:50 (35 minutes)*

**Presenter:** BECATTINI, Francesco (Università di Firenze)

**Session Classification:** Vorticity and Hyperon Polarization

Contribution ID: 43

Type: **not specified**

## Helicity and local parity violation

*Tuesday, 2 November 2021 11:25 (25 minutes)*

**Presenter:** BUZZEGOLI, Matteo (Iowa State University)

**Session Classification:** Vorticity and Hyperon Polarization



Contribution ID: 44

Type: **not specified**

## **Fermion distributions in rotating and accelerating systems**

*Tuesday, 2 November 2021 11:50 (25 minutes)*

**Presenter:** PALERMO, Andrea (Università di Firenze)

**Session Classification:** Vorticity and Hyperon Polarization

Contribution ID: 45

Type: **not specified**

## **Spin and chirality in hydrodynamics**

*Thursday, 4 November 2021 09:00 (30 minutes)*

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

**Session Classification:** Spin and chirality in kinetic theory

Contribution ID: 46

Type: **not specified**

## **Spin and chirality in kinetic theory**

*Thursday, 4 November 2021 09:30 (30 minutes)*

**Primary author:** ZHUANG, Pengfei (Tsinghua University)

**Presenter:** ZHUANG, Pengfei (Tsinghua University)

**Session Classification:** Spin and chirality in kinetic theory

Contribution ID: 47

Type: **not specified**

## **Berry phase and spin-momentum correlation in QCD matter**

*Thursday, 4 November 2021 10:00 (30 minutes)*

**Presenter:** YIN, Yi (Institute of Modern Physics, CAS)

**Session Classification:** Spin and chirality in kinetic theory

Contribution ID: 48

Type: **not specified**

## **Spin and chirality in kinetic theory**

*Wednesday, 3 November 2021 09:00 (40 minutes)*

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

**Session Classification:** Spin and chirality in hydrodynamics

Contribution ID: 49

Type: **not specified**

## **Spin and chirality in hydrodynamics**

*Wednesday, 3 November 2021 09:40 (40 minutes)*

**Presenter:** HUANG, Xu-Guang

**Session Classification:** Spin and chirality in hydrodynamics

Contribution ID: 50

Type: **not specified**

## Chiral anomaly and hydrodynamics

*Wednesday, 3 November 2021 10:35 (40 minutes)*

**Primary author:** ZAKHAROV, Valentin (Institute of Theoretical and Experimental Physics, NRC Kurchatov Institute)

**Presenter:** ZAKHAROV, Valentin (Institute of Theoretical and Experimental Physics, NRC Kurchatov Institute)

**Session Classification:** Spin and chirality in hydrodynamics

Contribution ID: 51

Type: **not specified**

## **Spin and chirality in hydrodynamics**

*Wednesday, 3 November 2021 11:15 (40 minutes)*

**Presenter:** WEICKGENANT, Nora (Goethe University Frankfurt)

**Session Classification:** Spin and chirality in hydrodynamics



Contribution ID: 52

Type: **not specified**

## Is CME fast enough?

*Wednesday, 3 November 2021 11:55 (25 minutes)*

**Presenter:** LANDSTEINER, Karl (IFT Madrid)

**Session Classification:** Spin and chirality in hydrodynamics

Contribution ID: 53

Type: **not specified**

## **Anomalous phenomena in Dirac and Weyl semimetals**

*Wednesday, 3 November 2021 14:10 (40 minutes)*

**Primary author:** SHOVKOVY, Igor (Arizona State University)

**Presenter:** SHOVKOVY, Igor (Arizona State University)

**Session Classification:** Connections to other fields

Contribution ID: 54

Type: **not specified**

## **Chiral Magnetic Fields in the Early Universe: Evolution and Signatures**

*Wednesday, 3 November 2021 13:30 (40 minutes)*

**Primary author:** KAHNIASHVILI, T.

**Presenter:** KAHNIASHVILI, T.

**Session Classification:** Connections to other fields

Contribution ID: 55

Type: **not specified**

## **Lattice results on the QCD phase diagram in a magnetic field**

*Thursday, 4 November 2021 11:15 (30 minutes)*

**Presenter:** D'ELIA, Massimo (University of Pisa & INFN)

**Session Classification:** Phase diagram of QCD in strong magnetic field/finite vorticity

Contribution ID: 56

Type: **not specified**

## Lattice results on the QCD phase diagram in a magnetic field

*Thursday, 4 November 2021 10:45 (30 minutes)*

**Presenter:** DING, Heng-Tong (Central China Normal University)

**Session Classification:** Phase diagram of QCD in strong magnetic field/finite vorticity

Contribution ID: 57

Type: **not specified**

## **Lattice results on the QCD phase diagram at finite vorticity**

*Thursday, 4 November 2021 11:45 (30 minutes)*

**Presenter:** BRAGUTA, Victor (IHEP)

**Session Classification:** Phase diagram of QCD in strong magnetic field/finite vorticity

Contribution ID: 58

Type: **not specified**

## **CME in holography**

*Thursday, 4 November 2021 13:30 (30 minutes)*

**Presenter:** KAMINSKI, Matthias

**Session Classification:** New theoretical developments

Contribution ID: 59

Type: **not specified**

# Helical effects for thermal fermions and polarization asymmetry

*Thursday, 4 November 2021 14:00 (30 minutes)*

## Field of Research

**Presenter:** AMBRUS, Victor E. (Goethe University)

**Session Classification:** New theoretical developments



Contribution ID: **60**

Type: **not specified**

## **Vorticity for Quantum computation**

*Thursday, 4 November 2021 14:30 (30 minutes)*

**Primary author:** IKEDA, K.

**Presenter:** IKEDA, K.

**Session Classification:** New theoretical developments

Contribution ID: **61**

Type: **not specified**

## **EIC Overview**

*Friday, 5 November 2021 09:00 (40 minutes)*

**Presenter:** DESHPANDE, Abhay (Stony Brook University)

**Session Classification:** Towards the EIC

Contribution ID: 62

Type: **not specified**

## **The contribution of the chiral anomaly to the proton spin and topological transitions at small $x$**

*Friday, 5 November 2021 09:40 (30 minutes)*

**Presenter:** VENUGOPALAN, Raju (BNL)

**Session Classification:** Towards the EIC

Contribution ID: **63**

Type: **not specified**

## **Anomaly and the proton spin**

*Friday, 5 November 2021 10:10 (20 minutes)*

**Presenter:** FRENKLAKH, David

**Session Classification:** Towards the EIC

Contribution ID: 64

Type: **not specified**

## **Experimental results on magnetic fields in ultra-peripheral heavy ion collisions**

*Friday, 5 November 2021 10:45 (25 minutes)*

**Presenter:** BRANDENBURG, Daniel (Brookhaven National Laboratory)

**Session Classification:** Magnetic field in heavy ion collisions

Contribution ID: 65

Type: **not specified**

## **Recent theory developments on strong QED fields in heavy-ion collisions**

*Friday, 5 November 2021 11:10 (25 minutes)*

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

**Session Classification:** Magnetic field in heavy ion collisions

Contribution ID: **66**

Type: **not specified**

## **Quantum tomography of chiral media**

*Friday, 5 November 2021 11:35 (25 minutes)*

**Presenter:** TUCHIN, Kirill

**Session Classification:** Magnetic field in heavy ion collisions

Contribution ID: 67

Type: **not specified**

## **Energy dependence of CME in heavy ion collisions**

*Friday, 5 November 2021 12:00 (25 minutes)*

**Presenter:** CARTWRIGHT, C.

**Session Classification:** Magnetic field in heavy ion collisions



Contribution ID: **68**

Type: **not specified**

## **STAR AuAu results on CME**

*Tuesday, 2 November 2021 13:30 (30 minutes)*

**Presenter:** WANG, Fuqiang (Purdue)

**Session Classification:** CME searches at RHIC and LHC

Contribution ID: **69**

Type: **not specified**

## **ALICE CME results**

*Tuesday, 2 November 2021 14:00 (30 minutes)*

**Presenter:** CHRISTAKOGLOU, Panos

**Session Classification:** CME searches at RHIC and LHC

Contribution ID: 70

Type: **not specified**

## Local polarization from hydro

*Tuesday, 2 November 2021 14:30 (30 minutes)*

**Presenter:** SHEN, Chun (Wayne State University)

**Session Classification:** CME searches at RHIC and LHC