

# **Chirality, Vorticity and Magnetic Field in Heavy Ion Collisions**

## **Report of Contributions**

Contribution ID: 1

Type: **not specified**

## Registration

*Friday, 2 December 2022 08:30 (20 minutes)*

**Session Classification:** Spin Dynamics/Vorticity Sessions

Contribution ID: 2

Type: **not specified**

## Welcome and Logistics

*Friday, 2 December 2022 08:50 (10 minutes)*

**Presenter:** HUANG, Huan (UCLA)

**Session Classification:** Spin Dynamics/Vorticity Sessions

Contribution ID: 3

Type: **not specified**

## **Recent developments of spin polarization phenomenology in relativistic heavy ion collisions**

*Friday, 2 December 2022 09:00 (30 minutes)*

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

**Session Classification:** Spin Dynamics/Vorticity Sessions

Contribution ID: 4

Type: **not specified**

## **Spin alignment measurements and future perspective**

*Friday, 2 December 2022 09:30 (30 minutes)*

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

**Session Classification:** Spin Dynamics/Vorticity Sessions

Contribution ID: 5

Type: **not specified**

## **Quarkonia and heavy flavor polarization: recent results and future perspectives (Zoom)**

*Friday, 2 December 2022 10:00 (30 minutes)*

**Presenter:** MICHELETTI, Luca

**Session Classification:** Spin Dynamics/Vorticity Sessions

Contribution ID: 6

Type: **not specified**

## **Measurement of novel vorticity phenomenon and future perspective (Zoom)**

*Friday, 2 December 2022 11:00 (30 minutes)*

**Presenter:** LISA, Mike

**Session Classification:** Spin Dynamics/Vorticity Sessions

Contribution ID: 7

Type: **not specified**

## **Exact Polarization in Relativistic Fluids at Global Equilibrium**

*Friday, 2 December 2022 11:30 (30 minutes)*

**Presenter:** PALERMO, Andrea (Università di Firenze, INFN Firenze, Goethe Univesität Frankfurt)

**Session Classification:** Spin Dynamics/Vorticity Sessions



Contribution ID: 8

Type: **not specified**

## **Polarization measurement update and future**

*Friday, 2 December 2022 14:00 (30 minutes)*

**Presenter:** VOLOSHIN, Sergei

**Session Classification:** Spin Dynamics/Vorticity Sessions

Contribution ID: 9

Type: **not specified**

## **Spin Polarization from Quantum Kinetic Theory**

*Friday, 2 December 2022 14:30 (30 minutes)*

**Presenter:** WAGNER, David (Goethe University Frankfurt)

**Session Classification:** Spin Dynamics/Vorticity Sessions

Contribution ID: **10**

Type: **not specified**

## **Spin hydrodynamics: Status and Future Perspective**

*Friday, 2 December 2022 15:00 (30 minutes)*

**Presenter:** SPERANZA, Enrico (University of Illinois at Urbana-Champaign)

**Session Classification:** Spin Dynamics/Vorticity Sessions

Contribution ID: 11

Type: **not specified**

## **Local polarization of Lambda hyperons: the role of spin Hall effect, initial condition and other possible corrections (zoom)**

*Friday, 2 December 2022 16:00 (30 minutes)*

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

**Session Classification:** Spin Dynamics/Vorticity Sessions

Contribution ID: 12

Type: **not specified**

## **Phi spin alignment (zoom)**

*Friday, 2 December 2022 16:30 (30 minutes)*

**Presenter:** WANG, Qun (University of science and technology of China)

**Session Classification:** Spin Dynamics/Vorticity Sessions

Contribution ID: 13

Type: **not specified**

## Opportunities at CBM

*Friday, 2 December 2022 17:00 (30 minutes)*

**Presenter:** XU, Nu (LBNL)

**Session Classification:** Spin Dynamics/Vorticity Sessions

Contribution ID: 14

Type: **not specified**

## **CME in heavy ion collisions: where do we stand, and what needs to be done?**

*Saturday, 3 December 2022 09:00 (30 minutes)*

**Presenter:** KHARZEEV, Dmitri (Stony Brook University and BNL)

**Session Classification:** CME/CMW and CVE Sessions

Contribution ID: 15

Type: **not specified**

## Experimental CME searches

*Saturday, 3 December 2022 09:30 (30 minutes)*

**Presenter:** TRIBEDY, Prithwish (BNL)

**Session Classification:** CME/CMW and CVE Sessions



Contribution ID: 16

Type: **not specified**

## **Perspectives and Discussions on the CME Search**

*Saturday, 3 December 2022 10:00 (30 minutes)*

**Presenter:** LIAO, JINFENG (INDIANA UNIVERSITY)

**Session Classification:** CME/CMW and CVE Sessions

Contribution ID: 17

Type: **not specified**

## **Perspectives on the STAR isobar and gold-gold data**

*Saturday, 3 December 2022 11:00 (30 minutes)*

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

**Session Classification:** CME/CMW and CVE Sessions

Contribution ID: 18

Type: **not specified**

## **What we have learned from isobar data and future perspective**

*Saturday, 3 December 2022 11:30 (30 minutes)*

**Presenter:** SHI, Shuzhe (Stony Brook University)

**Session Classification:** CME/CMW and CVE Sessions

Contribution ID: 19

Type: **not specified**

## Comments on status of CME searches

*Saturday, 3 December 2022 12:00 (30 minutes)*

**Presenter:** VOLOSHIN, Sergei

**Session Classification:** CME/CMW and CVE Sessions

Contribution ID: 20

Type: **not specified**

## **A possibility of twisted gauge backgrounds and chirality production in the heavy-ion collision**

*Saturday, 3 December 2022 14:00 (30 minutes)*

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

**Session Classification:** CME/CMW and CVE Sessions

Contribution ID: 21

Type: **not specified**

## **Event Shape Selection, BES Data and Future Perspective**

*Saturday, 3 December 2022 14:30 (45 minutes)*

**Presenters:** WANG, Gang (UCLA); HUANG, Huan (UCLA)

**Session Classification:** CME/CMW and CVE Sessions

Contribution ID: 22

Type: **not specified**

## **CME/CMW searches at LHC energies**

*Saturday, 3 December 2022 16:00 (30 minutes)*

**Presenter:** CHRISTAKOGLOU, Panos (Nikhef)

**Session Classification:** CME/CMW and CVE Sessions

Contribution ID: 23

Type: **not specified**

## **Challenges and Future Perspective (Zoom)**

*Saturday, 3 December 2022 16:30 (30 minutes)*

**Presenter:** MULLER, Berndt

**Session Classification:** CME/CMW and CVE Sessions



Contribution ID: 24

Type: **not specified**

## **Magnetic Field at BES Energies (Zoom)**

*Sunday, 4 December 2022 09:00 (30 minutes)*

**Presenter:** LI, Hui (Fudan University)

**Session Classification:** EM Field Sessions

Contribution ID: 25

Type: **not specified**

## UPC and Magnetic Field

*Sunday, 4 December 2022 09:30 (30 minutes)*

**Presenter:** XU, Zhangbu (BNL)

**Session Classification:** EM Field Sessions

Contribution ID: 26

Type: **not specified**

## **v1 Splitting results and perspective**

*Sunday, 4 December 2022 10:00 (30 minutes)*

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

**Session Classification:** EM Field Sessions

Contribution ID: 27

Type: **not specified**

## **Discussions: Any high priority item at RHIC if an opportunity arises**

*Sunday, 4 December 2022 11:00 (1 hour)*

**Session Classification:** EM Field Sessions