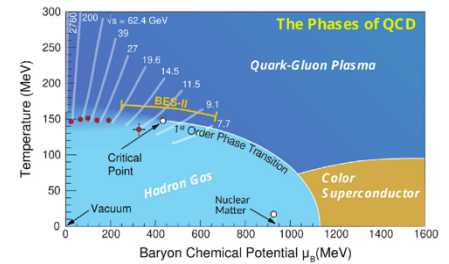


## INT Program INT-20-1c



## Criticality and Chirality: Novel Phenomena in Heavy Ion Collisions

[Online Component: May 11– 22, 2020]

### Meeting Connection Information

**Topic:** Virtual INT Program 20-1c

**Time:** This is a recurring meeting Meet anytime

**Join Zoom Meeting**

<https://uic.zoom.us/j/99930883547?pwd=c2l6UXh3d3p4dnluYmQyQ1ErYTIxQT09>

**Meeting ID:** 999 3088 3547

**Password:** 6c?2Q5&r

For questions, please contact one of the organizers:

Jinfeng Liao ([liaoji@indiana.edu](mailto:liaoji@indiana.edu)), Misha Stephanov ([misha@uic.edu](mailto:misha@uic.edu)),

Ho-Ung Yee ([hyee@uic.edu](mailto:hyee@uic.edu)), Zhangbu Xu ([xzb@bnl.gov](mailto:xzb@bnl.gov))

## Week-2 “Chirality” Scientific Program

*All time info in Pacific Standard Time (UTC -8), please convert accordingly.*

### Monday, May 18

- |               |                                                                                 |
|---------------|---------------------------------------------------------------------------------|
| 8:00 – 9:00   | Dmitri Kharzeev (Stony Brook / BNL)<br><b>“Chirality: theoretical overview”</b> |
| 9:10 – 10:10  | Sergei Voloshin (Wayne State Univ)<br><b>“Chirality: experimental overview”</b> |
| 10:20 – 11:00 | Discussions                                                                     |

17:00 – 18:00 Naoki Yamamoto (Keio Univ)  
*“Chiral transport and turbulence in supernovae”*

## **Tuesday, May 19**

8:00 – 9:00 Aihong Tang (BNL)  
*“Search for the Chiral Magnetic Effect  
in isobaric collisions - a status report”*

9:10 – 10:10 Igor Shovkovy (Arizona State Univ)  
*“Chiral kinetic theory and applications to semi-metals”*

10:20 – 11:00 Discussions

17:00 – 18:00 Guoliang Ma (Fudan Univ)  
*“On the fate of chiral anomalous effects in AMPT model”*

## **Wednesday, May 20**

8:00 – 9:00 Kirill Tuchin (Iowa State Univ)  
*“Time-evolution of magnetic field in hot nuclear matter with  
fluctuating topological charge”*

9:10 – 10:10 Dirk Rischke (Frankfurt Univ)  
*“How vorticity generates spin polarization through nonlocal  
collisions”*

10:20 – 11:00 Discussions

17:00 – 18:00 Pengfei Zhuang (Tsinghua Univ)  
*“Quantum transport theory”*

## Thursday, May 21

- 8:00 – 8:50 Takafumi Niida (Univ Tsukuba)  
*“Global and local polarization measurements”*
- 9:00 – 9:50 Francesco Becattini (Univ Florence)  
*“Theory progress on vorticity and polarization”*
- 10:00 – 10:50 Che-Ming Ko (TAMU)  
*“Chiral kinetic modeling of vorticity and polarization”*
- 17:00 – 18:00 Zuo-Tang Liang (Shandong Univ)  
*“Global polarization effect and spin-orbital coupling in strong interaction systems”*

## Friday, May 22

- 8:00 – 8:50 Joseph Kapusta (Univ Minnesota)  
*“Relaxation time for strange quark spin in rotating quark gluon plasma”*
- 9:00 – 9:50 Shuzhe Shi (McGill Univ)  
*“Dissipative spin hydrodynamics from both microscopic and macroscopic approaches”*
- 10:00 – 10:50 Andrei Sadofyev (LANL)  
*“Chiral waves on the Fermi-Dirac sea: Quantum superfluidity and the axial anomaly”*
- 17:00 – 18:00 Koichi Hattori (Kyoto Univ)  
*“Transport phenomena in magnetic fields”*

*End of the Week-2 Program*