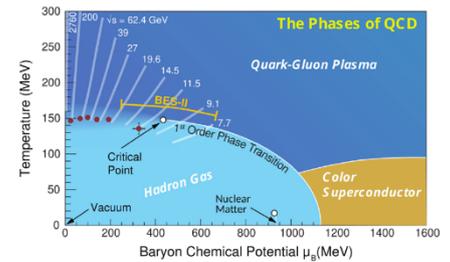


## INT Program INT-20-1c



## 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=c2l6UXh3d3p4dnluYmQvQ1ErYTlxQT09>

**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-1 “Criticality” Scientific Program

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

### Monday, May 11

- |               |  |
|---------------|--|
| 8:00 – 9:00   | Claudia Ratti (Houston Univ)<br><i>“Equation of state of QCD from the lattice”</i>   |
| 9:10 – 10:10  | Frithjof Karsch (Bielefeld Univ)<br><i>“The chiral phase transition in QCD, conserved charge fluctuations and the chiral critical point”</i> |
| 10:20 – 11:00 | Discussions  |

17:00 – 18:00 Vladimir Skokov (NCSU)  
*“Universality driven analytic structure of QCD crossover:  
radius of convergence in baryon chemical potential”*

## **Tuesday, May 12**

8:00 – 9:00 Ulrich Heinz (OSU)  
*“Hydrodynamics for heavy-ion collisions  
- status and recent developments”*

9:10 – 10:10 Derek Teaney (Stony Brook)  
*“Dynamics near the chiral critical point”*

10:20 – 11:00 Discussions

17:00 – 18:00 Yi Yin (IMP)  
*“Hydro+ and new developments in fluctuating hydrodynamics”*

## **Wednesday, May 13**

8:00 – 9:00 Volker Koch (LBNL)  
*“Fluctuations and the QCD phase transition”*

9:10 – 10:10 Gokce Basar (UNC)  
*“Hydrodynamic fluctuations near and away from the critical point”*

10:20 – 11:00 Discussions

17:00 – 18:00 Mauricio Martinez Guerrero (NCSU)  
*“Recent developments on far-from-equilibrium fluid dynamics”*

## **Thursday, May 14**

- 8:00 – 9:00 Nu Xu (LBNL)  
*“Experimental overview of the critical point search”*
- 9:10 – 10:10 Tatyana Galatyuk (TU Darmstadt)  
*“Scan the phase diagram using particle spectra”*
- 10:20 – 11:00 Discussions
- 17:00 – 18:00 Bodangadas Mohanty (NISER)  
*“Experimental measurements of critical fluctuation”*

## **Friday, May 15**

- 8:00 – 9:00 Thomas Schaefer (NCSU)  
*“Critical behavior of the bulk viscosity in QCD”*
- 9:10 – 10:10 Marlene Nahrgang (SUBATECH)  
*“Dynamics of critical fluctuations”*
- 10:20 – 11:00 Discussions
- 17:00 – 18:00 Edward Shuryak (Stony Brook)  
*“Criticality, few-nucleon clustering and light nuclei production”*

*End of the Week-1 Program*