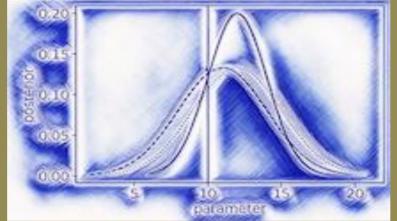




Central China Center for Nuclear Theory 华中核理论中心 Sep 01–12, 2025, Wuhan



Organizers: Jean-Francois Paquet Kai Zhou Matthew Luzum

Raymond Ehlers Weiyao Ke Wilke van der Schee





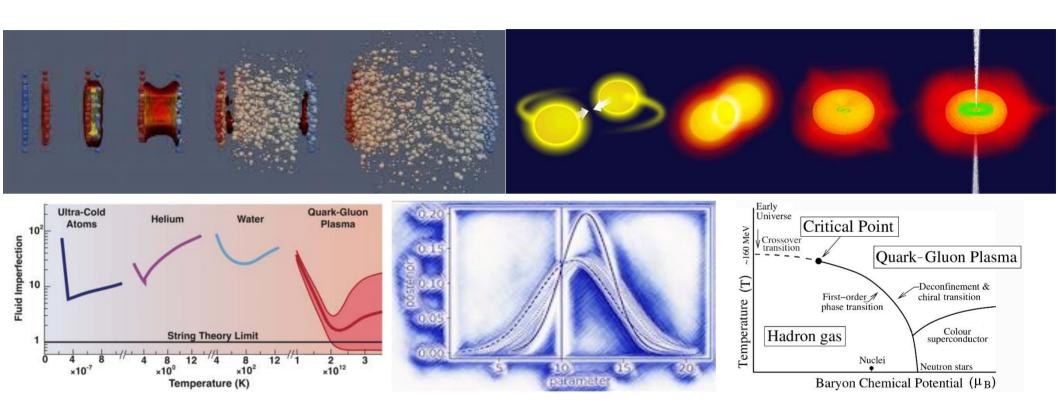
Workshop Conference Room: 409

Wifi: iopp-9409

password: 12345678

Office Space: Room 427

- Room Passcode has been sent to email XXXXXX#.
- 22 seats with names assigned.
 If two people are assigned to the same seat, they do not overlap in time.
- Wifi: iopp1password: 12345678
- Bottled water + coffee machine



Precision Frontier of QCD Matter: Inference & Uncertainty Quantification

Central China Center for Nuclear Theory (C3NT) at IOPP, CCNU Building 9, Room 409, Sep 01 -- 12

Scientific Program of Week I, Sep 01-05

09:30--10:15 Dr. Shuzhe Shi

Toward constraining QCD phase transitions in neutron star interiors:

Bayesian inference with a Tolman-Oppenheimer-Volkof linear response analysis

MON 11:00--11:45 Dr. NARESH KUMAR PATRA

Inferring the Equation of State from Neutron Star Observables via Machine Learning

14:00--15:00

Panel discussion

09:15--10:00 Dr. Wilke Van Der Schee

Bayesian inference in heavy ion collisions

10:30--12:00 Prof. Tetsuo Hatsuda
Special Colloquium: From Ouarks to Neutron Stars

14:00--14:45 Prof. Zhen Zhang

Bayesian and frequentist model comparison for nuclear symmetry energy

09:30--10:15 Dr. Andreas Kirchner

Calibration of rapidity dependent mulitplicities using a three-dimensional initial

11:00--11:45 Prof. Tetsuo Hatsuda

Hadron-Hadron Interaction from Lattice QCD: Theory meets experiments

09:30--10:15 Dr. Adam Takacs

High-Dimensional Unfolding in Large Backgrounds

11:00--11:45 Dr. Manjunath Omana Kuttan

Deep generative event-by-event heavy-ion simulations for next-generation

experiments

14:00--14:45 Dr. Jasper Parkkila

Emergence and quantification of collective effects across collision systems

09:30--10:15 Prof. Kai Zhou

Extreme QCD matter exploration with machine learning

11:00--11:45 Dr. Shirajum Monira

Quantifying the role of strangeness in baryon production mechanisms through

angular correlations in pp collisions at 13.6 TeV with ALICE 2

14:00--14:45

TBD

Zoom Link: https://us06web.zoom.us/j/8393196570

Website: https://indico.ihep.ac.cn/event/25126 Organizers: Jean-Francois Paquet, Kai Zhou, Matt Luzum, Raymond Ehlers, Weiyao Ke, Wilke van der Schee



Workshop Schedule

- Talks 45mins (including Q&A), please remember to upload slide before your session.
- Panel discussion.
- Special IOPP Colloquium on Tuesday 10:30am by Prof. Hatsuda (same room).
- No schedule on the weekends.

https://indico.ihep.ac.cn/event/25126/timetable

Remote participation

- Zoom: https://us06web.zoom.us/j/8393196570
- No password, waiting room enabled.

Entrance to the Campus

- Chinese citizen can scan their ID cards to enter the gate (north gate has reopened).
- For foreign participants, you can show them the invitation document, or the room key.
- Be careful of the construction sites on campus.

公银泰创意城 Metro 2 & 8 Jiedaokou Malls **含**君宜王朝大饭店 ○ 未来城购物公园 长江传媒大厦 七遇青年旅舍 **North Gate** Guangbutun 武汉大学口腔医院 Laundary, 融科·珞瑜路 pick up service 融科·路瑜中心 **Physics** 卓刀泉立交 华中师范大学 Cafeteria Hotel **立** 音乐学院 **East Gate** Cafeteria Metro 2 & 11 +market Huguan Cafeteria

Dining

- Lunch: cafeteria
- Many more restaurants near campus + two major shopping malls
- Group dinner: Thursday night of each week.

Method of payment

• Cash and credit card are not very common.





- Two major method of payments: WeChat & Alipay
- For cafeteria and market on campus, you can pay with the Campus Consumption Card (500rmb).
 - Please return card to the secretary before leaving.
 - If run out of fund, please come to us.

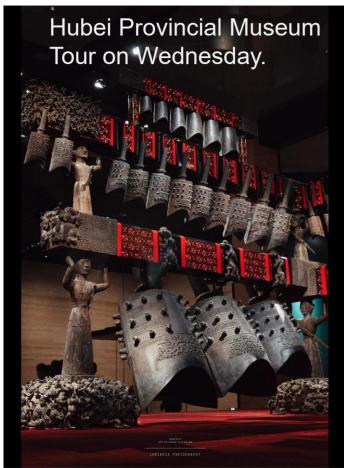
The hotel does not have Laundry Service

- There is one (万洗洗衣) on campus with pick-up/drop-off service.
- If you need Laundry, please contact the workshop secretary to schedule a pick up.

The City of Wuhan



Attractions in the urban area of Wuhan





The East Lake of Wuhan