

# The 12th HuaDa QCD School

## 第十二届华大 QCD 讲习班

Institute of Particle Physics (IOPP),  
Central China Normal University (CCNU),  
Wuhan, China, Oct 27-Nov 01, 2024



# Check your registration items

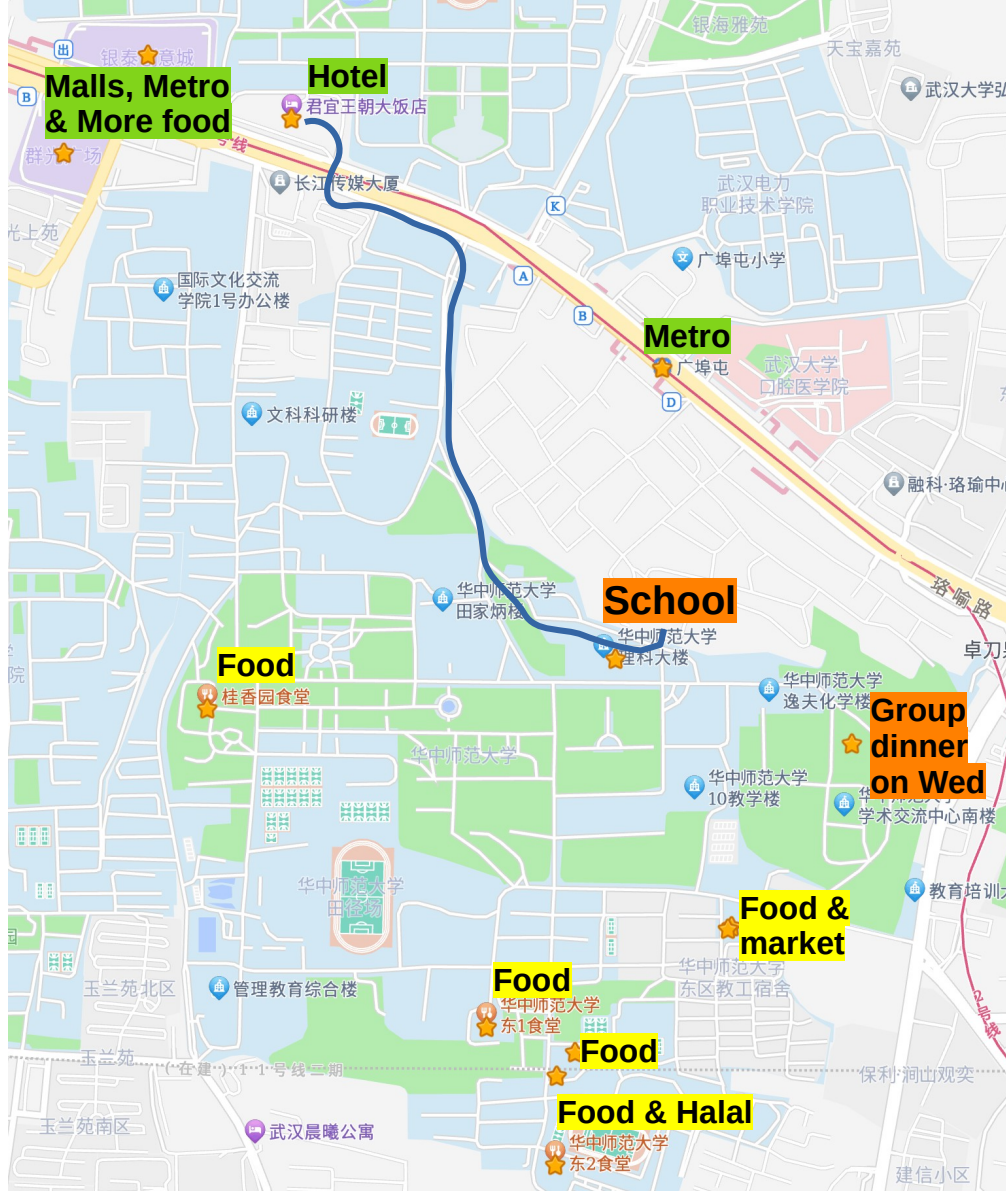
## To get food:

1. The card allows you to pay at cafeteria on campus. Some places on campus accept  

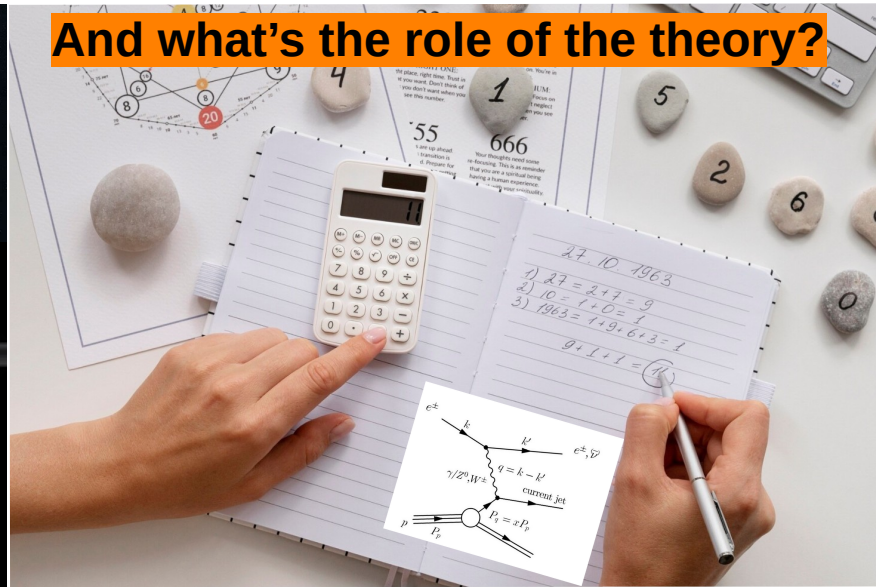
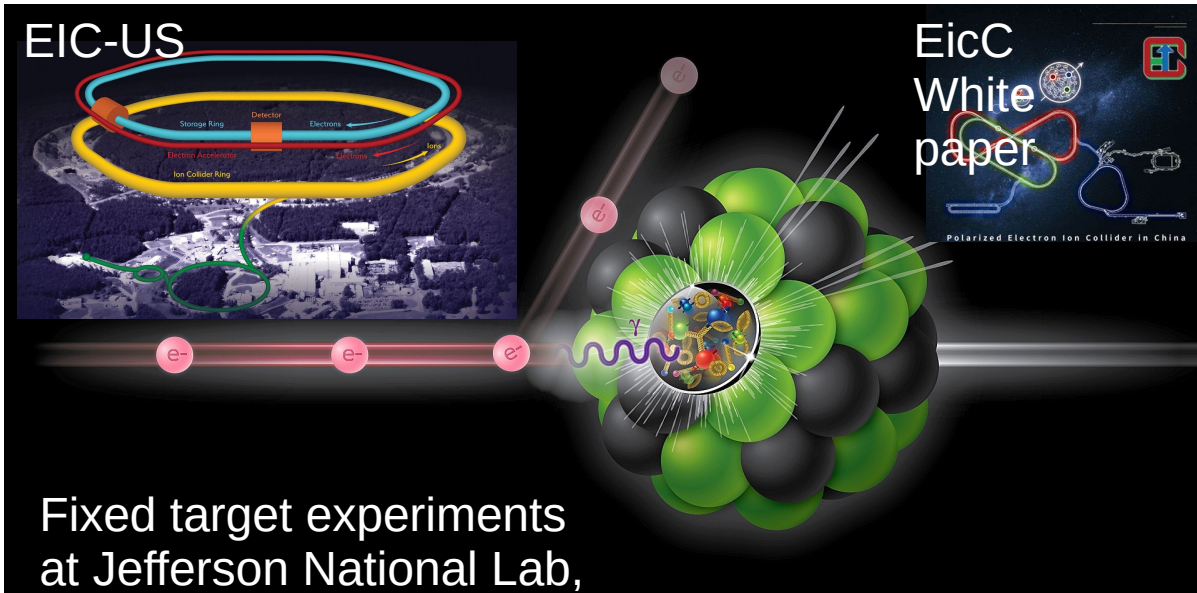
2. Two major shopping malls near your hotel.

## Group dinner:

Wednesday 6pm, at Guiyuan Hotel (桂苑宾馆) on campus. Bring name tag for entry.



# Practical Theory Tools for the Electron-Ion Collider (EIC) Physics



# Effective Theory & Jet Physics



Dr. Kyle Lee completed his PhD at Stony Brook University with George Sterman and held his first postdoc position at LBNL. He is currently a postdoc researcher at MIT with Ian Stewart.

Kyle works on jet substructure, energy correlators, effective field theories, heavy quarks, transverse momentum dependent physics, hadron structure and quantum computing.

# Small-x Physics



Prof. Farid Salazar obtained his PhD from Stony Brook and became a postdoc at UCLA and LBL. He is currently research assistant professor at the University of Washington.

Farid's research explores hadronic and nuclear matter in high-energy collisions, centering on the color glass condensate EFT of dense and saturated gluon system.

His recent focus includes elucidating the relation between CGC EFT and TMD factorization, and exclusive processes for imaging nuclei in ultra peripheral heavy-ion collisions.

# Quantum Computing & High-E QCD



Dr. João Barata obtained his PhD from the University of Santiago de Compostela, IGFAE in 2021. He then took the postdoc at BNL from 2022 to 2024. He is currently a postdoc scholar at CERN since the fall of 2024.

João's research is focused on understanding many body problems in QCD. Currently, he is studying the evolution of jets in nuclear matter, and learn about real-time processes in QFT using QIS and related techniques.

2024华大  
QCD讲习班

周一 Mon, Oct 28

周二 Tue, Oct 29

周三 Wed, Oct 30

周四 Thu, Oct 31

周五 Fri, Nov 01

08:30-10:00	Small-x Physics (Prof. Farid Salazar)	Quantum Computing of High Energy QCD (Dr. João Barata)	Effective Theory and Jet Physics (Dr. Kyle Lee)	Small-x Physics (Prof. Farid Salazar)	Effective Theory and Jet Physics (Dr. Kyle Lee)
10:00-10:30	Photo+Coffee break	Coffee break	Coffee break	Coffee break	Coffee break
10:30-12:00	Effective Theory and Jet Physics (Dr. Kyle Lee)	Small-x Physics (Prof. Farid Salazar)	Quantum Computing of High Energy QCD (Dr. João Barata)	Quantum Computing of High Energy QCD (Dr. João Barata)	Small-x Physics (Prof. Farid Salazar)
12:00-14:00	Lunch				
14:00-15:30	Quantum Computing of High Energy QCD (Dr. João Barata)	Effective Theory and Jet Physics (Dr. Kyle Lee)	Small-x Physics (Prof. Farid Salazar)	Effective Theory and Jet Physics (Dr. Kyle Lee)	Quantum Computing of High Energy QCD (Dr. João Barata)
15:30-16:00	Free time		Coffee break	Coffee break	Free time
16:00-17:00	Free time		Discussions	Discussions	Free time
18:00-21:00			Group dinner		

*Before we start, we have greetings from Prof. Xin-Nian Wang, who organized the 1st HuaDa QCD School!*