

Hadron 2025: Guangzhou Proposal

Qian Wang

On behalf of the conference team



Where



The 2010 Asian Games



The 3rd biggest city of China

Where

Guangzhou:

- The capital and largest city of Guangdong province
- The heart of the Guangdong-Hong Kong-Macau Greater Bay Area
- Leading financial centre in the Asia-Pacific region



Canton Tower



Zhenhai Tower
(Guangzhou Museum)



Canton Fair

Where

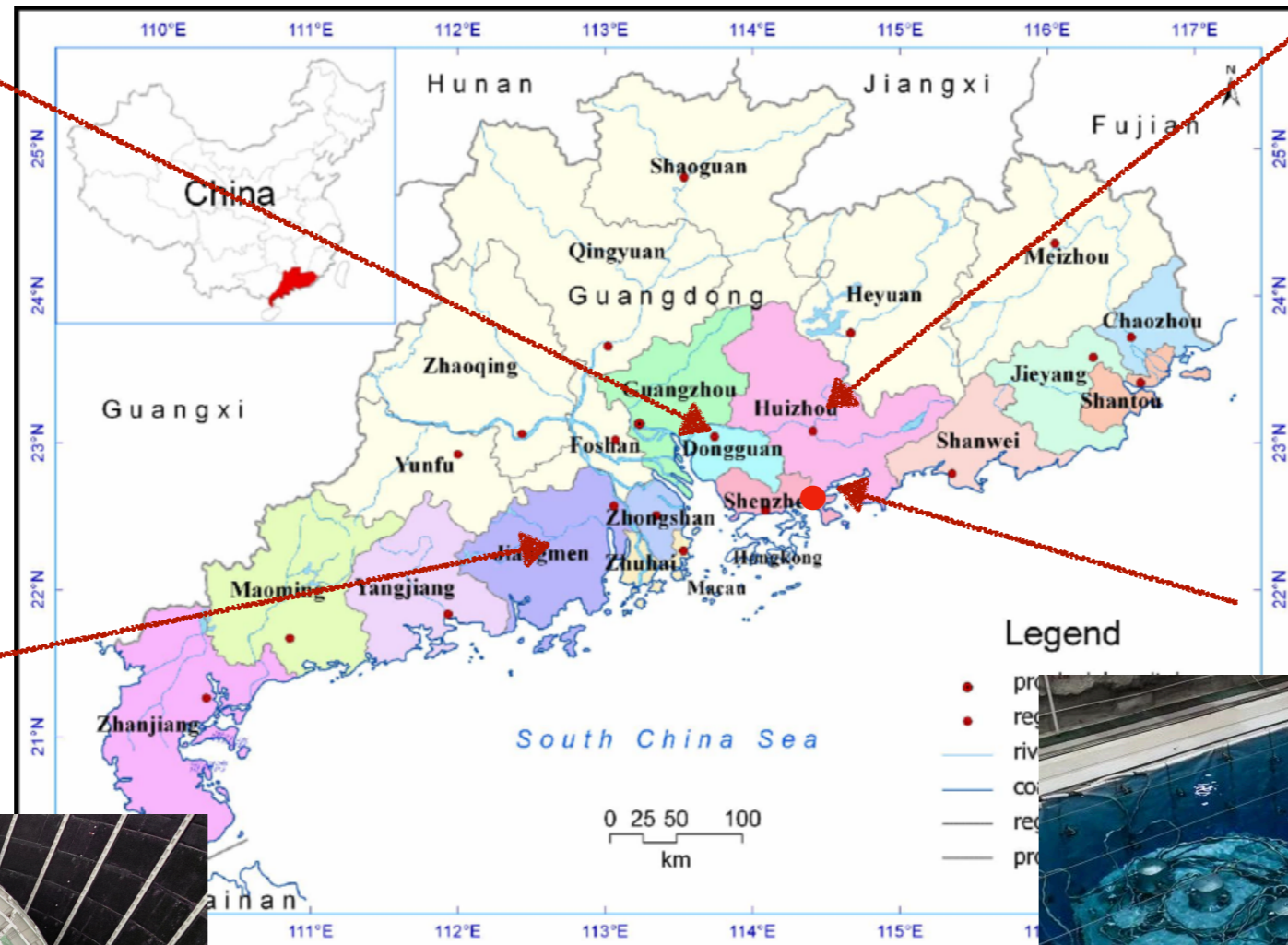
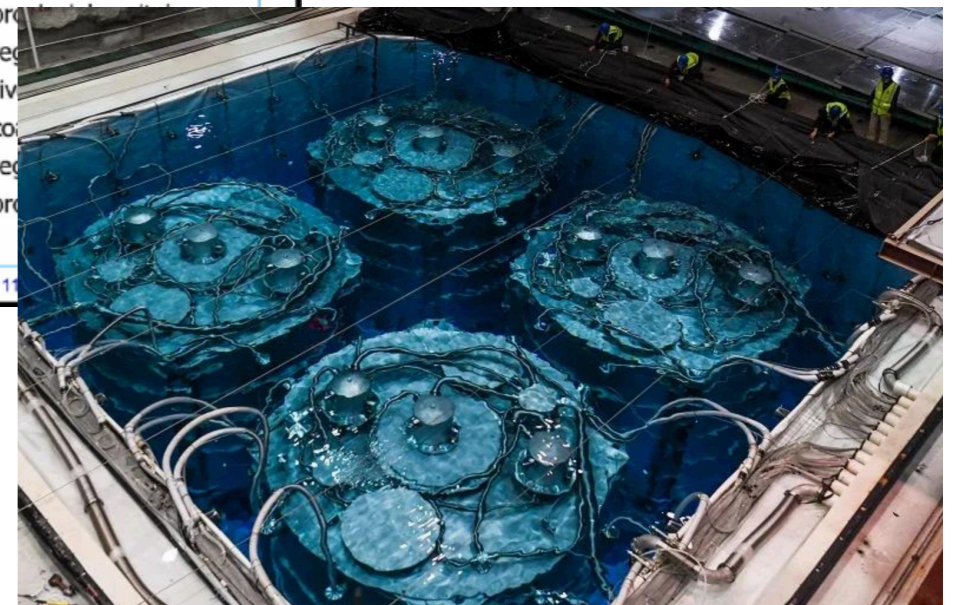
Big Science Facilities in Guangdong province:

Chinese Spallation
Neutron Source (CSNS)

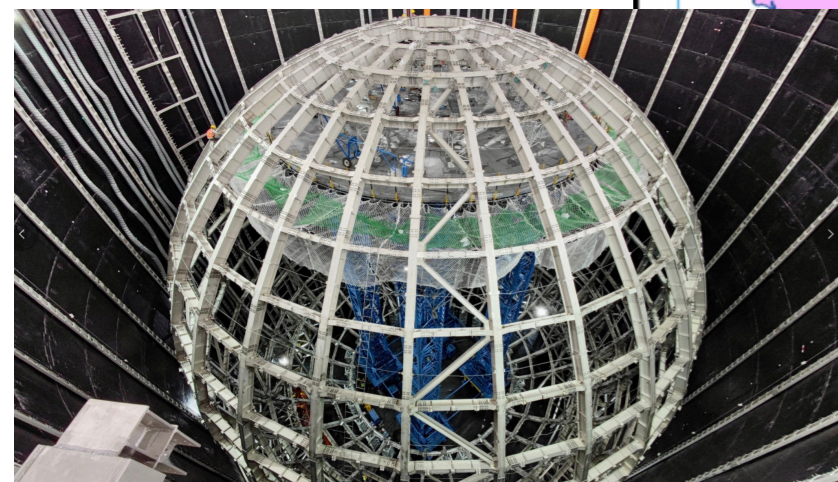
High Intensity Heavy-ion
Accelerator Facility (HIAF)
2025 Acceptance



Daya Bay Neutrino
Experiment



Jiangmen Underground
Neutrino Observatory
(JUNO)



When

Proposed dates: Dec., 2025 (flexible)

The best time to enjoy the city is from Oct. to Dec. ($\sim 24^{\circ}\text{C}$)

Canton Fair hold in Oct. to Nov.

Other major conferences:

Feb. 26th-Mar. 1st, 2024, QWVG2024 in Mohali, India

Jun. 17th-21st, 2024, NSTAR2024 in York, England

Not decided, Charm 2024



Members of BESIII, LHCb, CMS, STAR

Theoretical researches

- High Energy Nuclear Theory
- Particle Physics
- Phenomenology
- Hadron Physics
- Lattice QCD



South Nuclear Super Computer center

- Total performance: 2.3 PFlops
- ~250 GPUs, ~2500 CPU cores
- Storage: 5 Petabytes



Local organizer: Qian Wang

Institute of Modern Physics

Southern Center for Nuclear-science Theory



Nuclear Structure

- Super Heavy Element
- New Isotopes
- Collision Dynamics
- Nuclear-astrophysics

Nuclear Matter Structure

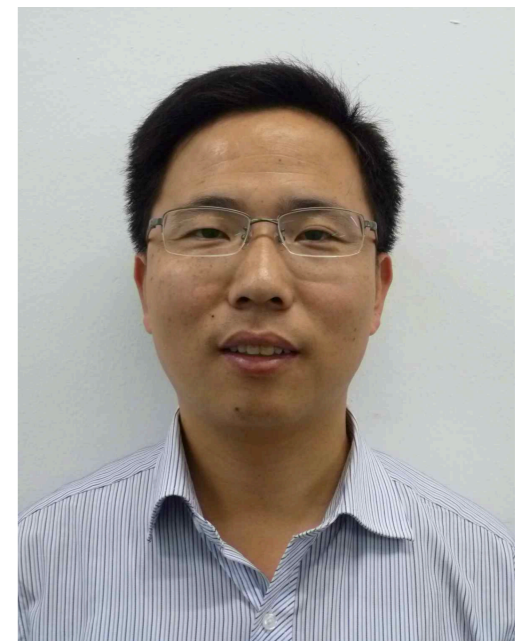
- QCD phase boundary, critical point
- Hyper-nuclear production
- EOS at high baryon density
- CEE, CBM, NICA, STAR

Nucleon Structure

- Hadron spectroscopy
- 3D imaging
- Origin of mass and spin
- EicC, EIC, BESIII, PANDA

Neutrino Properties

- Dirac or Majorana?
- Beyond SM physics
- Nuclear structure with neutrino
- $N\nu$ DEX, NEXT



Local organizer:
Ju-Jun Xie

Conference Venue

China Hotel

- In the center of Guangzhou city
- Experienced in world-class conference
- 20+ conference rooms with capacity 80 -1500 people
- Reserved for the conference
2.5 days plenary, 2.5 days parallel
- Fully equipped (wifi, coffee break)



Social events

Excursion:

Canton Tower



Pearl River Night Tour



Sun Yat-sen Memorial Hall

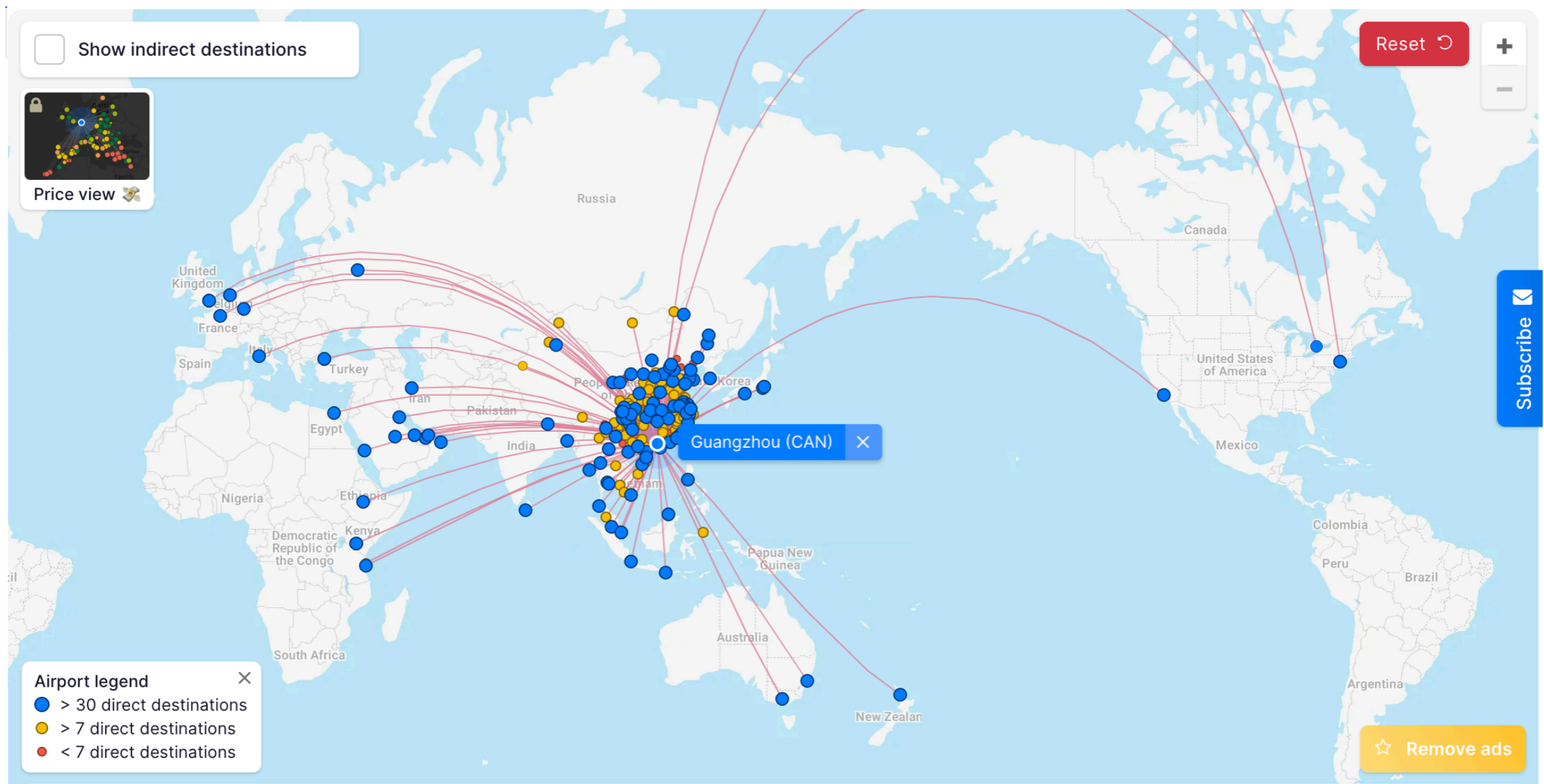


Guangzhou Zoo



How to arrive at Guangzhou

Baiyun international airport: with routes reaching more than 230 destinations, including more than 90 international and regional destinations.

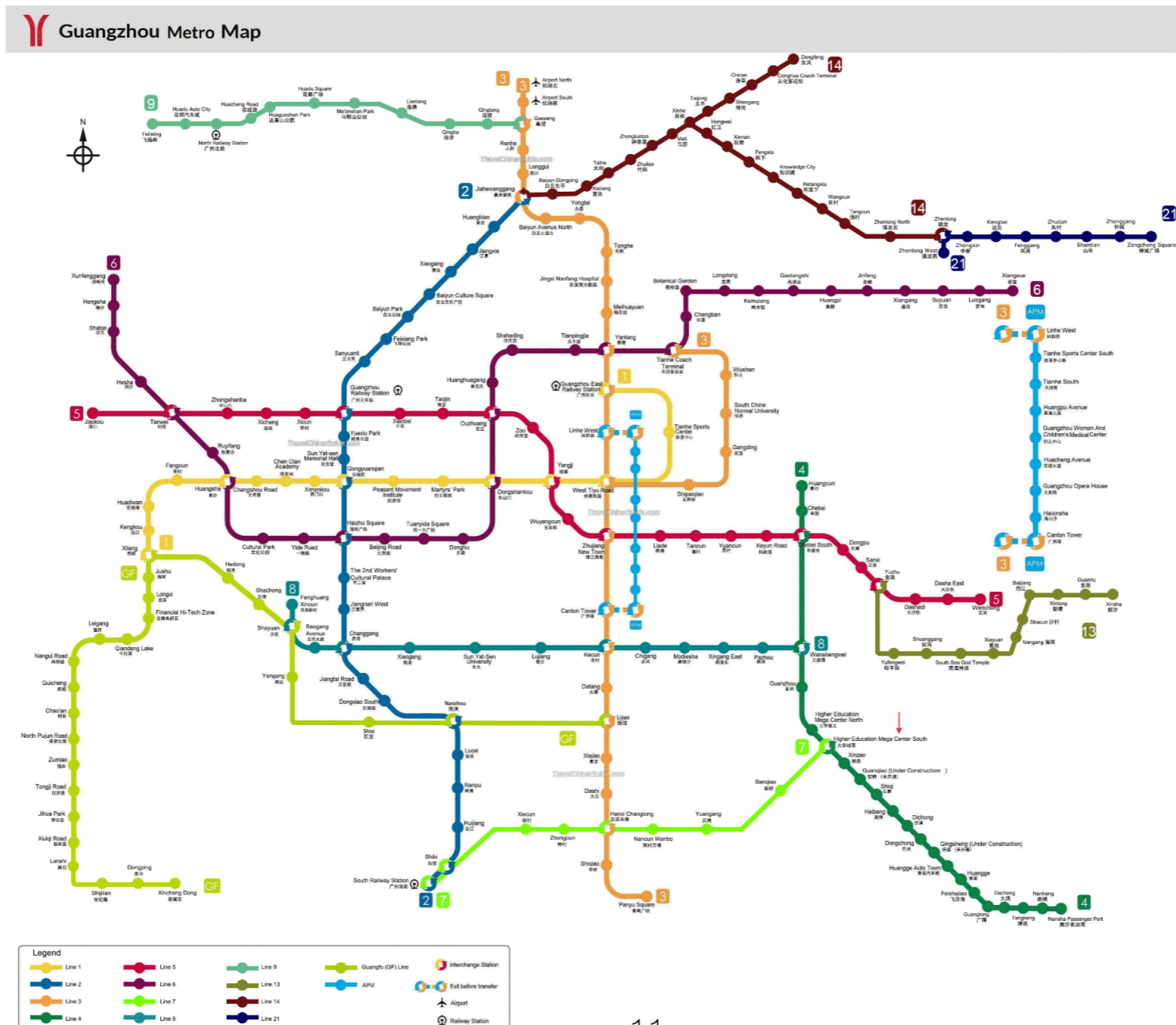


How to arrive at Guangzhou

Baiyun international airport:

3.5 hr flights to Beijing, 2.5 hr flights to Shanghai

Public transportation: Bus, Subway, Taxi



Restaurants nearby



Funding, Fee and support

Funding Supports:

200,000 CNY from SCNU, IMP

Registration Fee:

420 Euro (more than 3 months earlier), 470 Euro

Young Participant Support:

- 50% conference fee (200 USD) for PhD+ young postdoc if necessary
- Any extra further supports will be used for further supporting young participants

Practical Support:

Visa, transportation, and whatever we can help

Budget estimation (400 participants)

	Quality	Cost(CNY)	Cost(Euro)	Cost(USD)	Total(CNY)
Reception	40	3,000	379.75	416.67	120,000
Conference room plenary	2.5	30,000	3797.47	4166.67	75,000
Conference room parallel (6)	2.5	60,000	7594.94	8333.33	150,000
Coffee break	400*2*5	68	8.61	9.44	272,000
Buffet lunch/dinner	400*2*4	168	21.27	23.33	537,600
Banquet	40	3,500	443.04	486.11	140,000
Transportation	20	1,000	126.58	138.89	20,000
Young support accommodation	20*5	300	37.97	41.67	30,000
Total					1344,600



Welcome you to Guangzhou for Hadron 2025