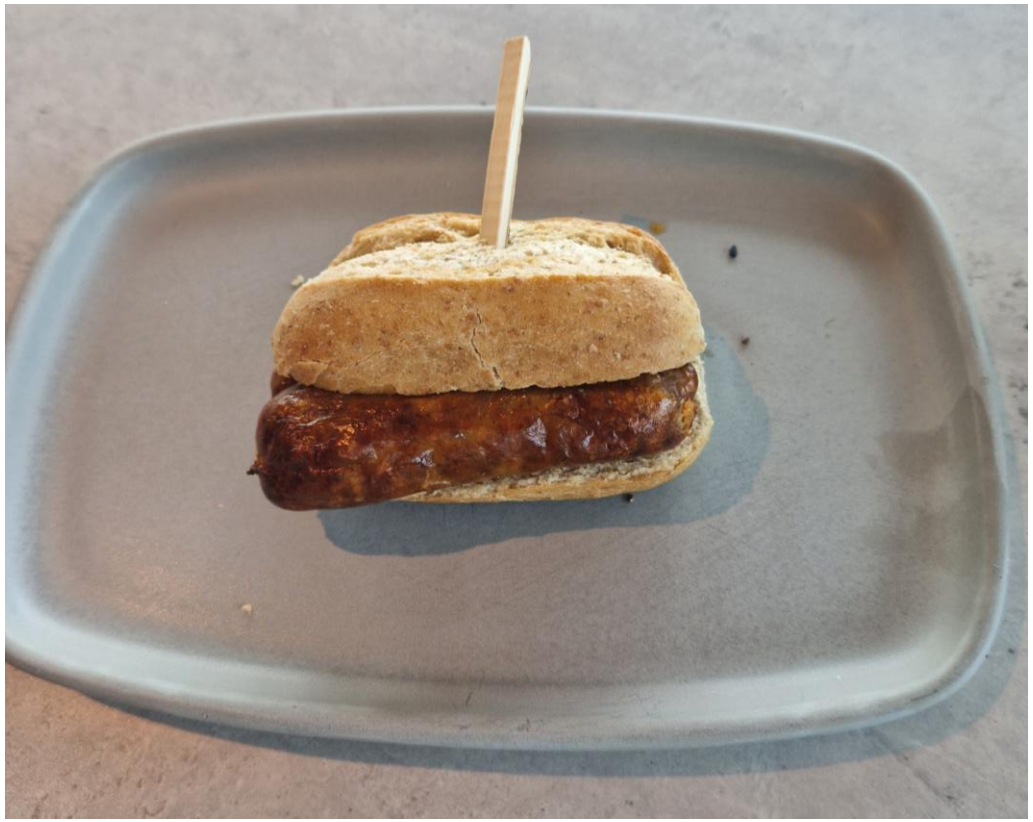
NuFact 2025

Highlights

The View

Breakfast



Posters

- Congratulations to our winners

- Jessie Micallef
- Partick Bates

Dinner

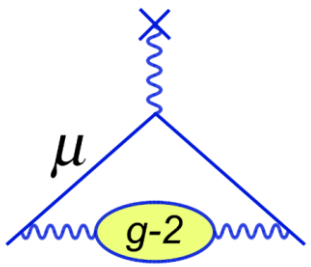
Physics

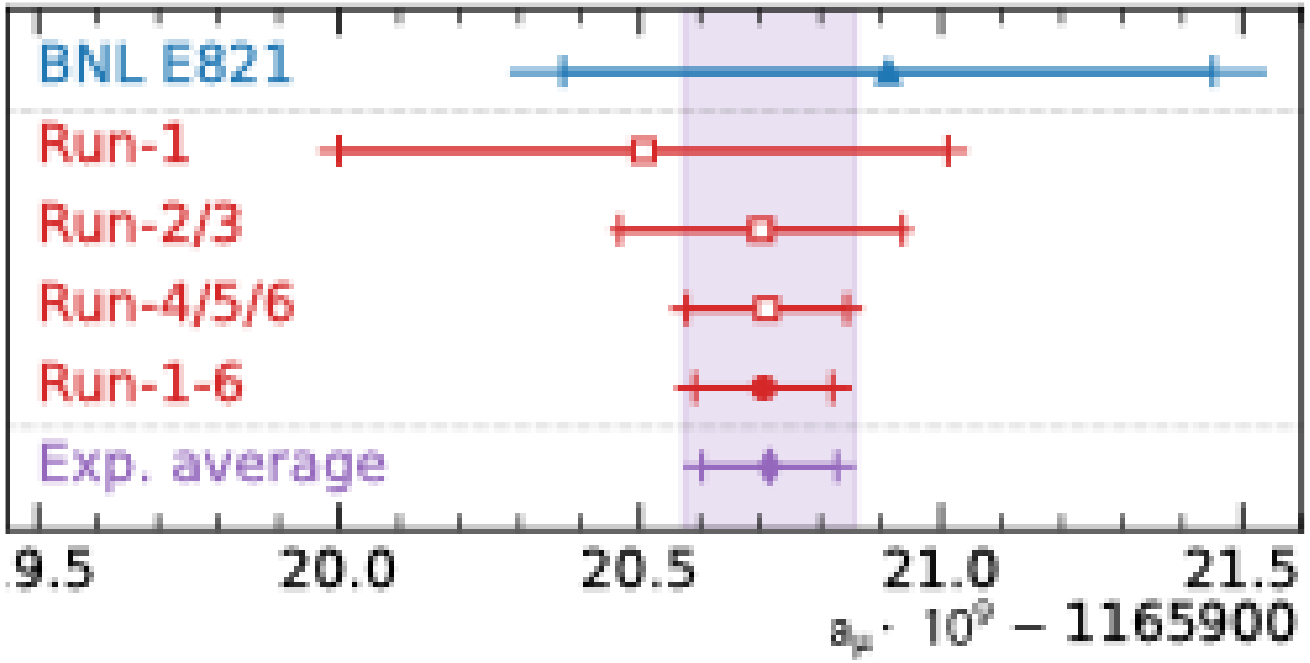
- We have had 45 Plenary and 91 Parallel talks
- They were all excellent, lets congratulate the speakers again!

- I’ve picked three of my personal highlights:

Ce Zhang, University of Liverpool

Final Muon g-2 Results





$$a_\mu(\text{Run}-4/5/6) = 0.001165920710(162)$$

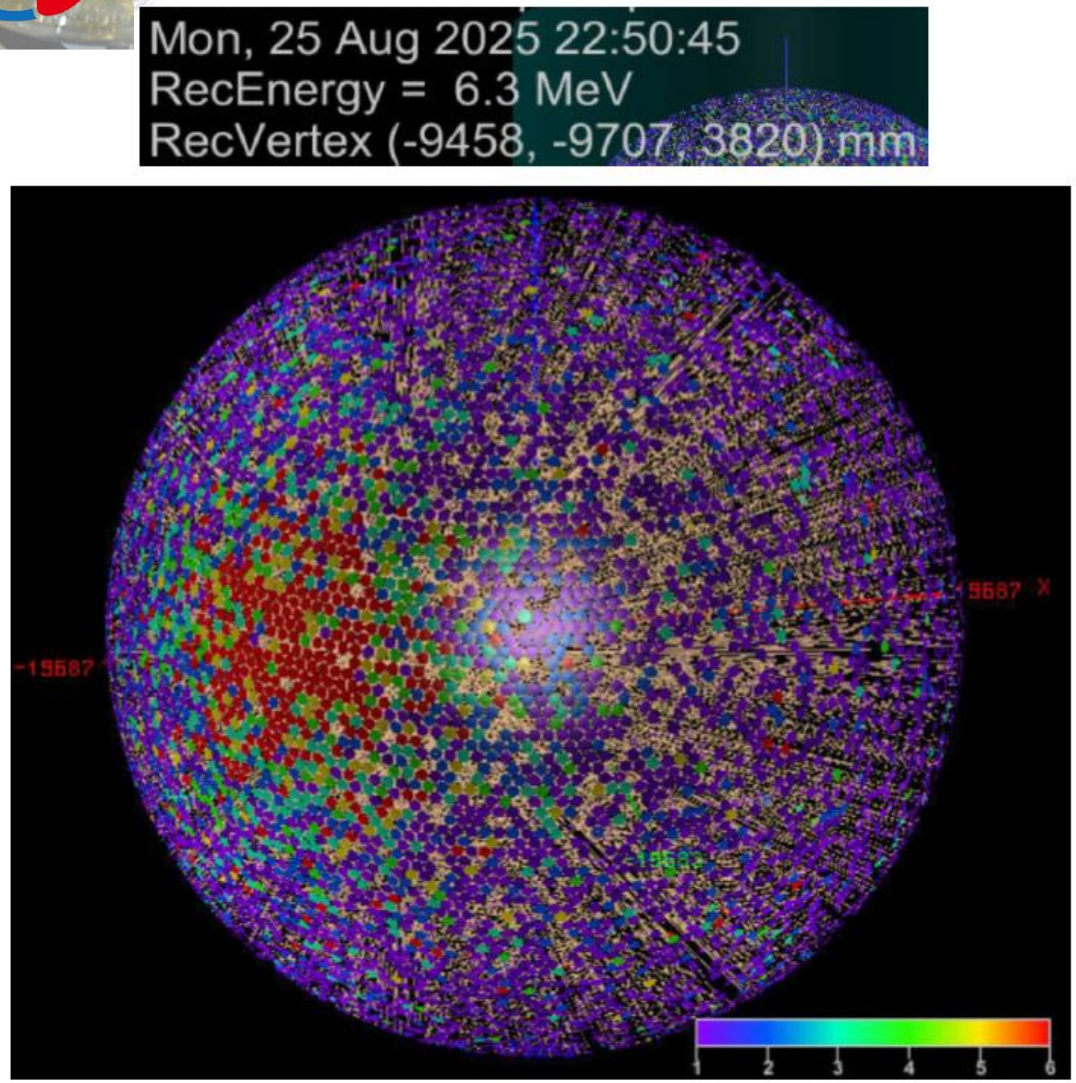
$$a_\mu(\text{Run}-1-6) = 0.001165920705(148)$$

$$a_\mu(\text{exp}) = 0.001165920715(145)$$

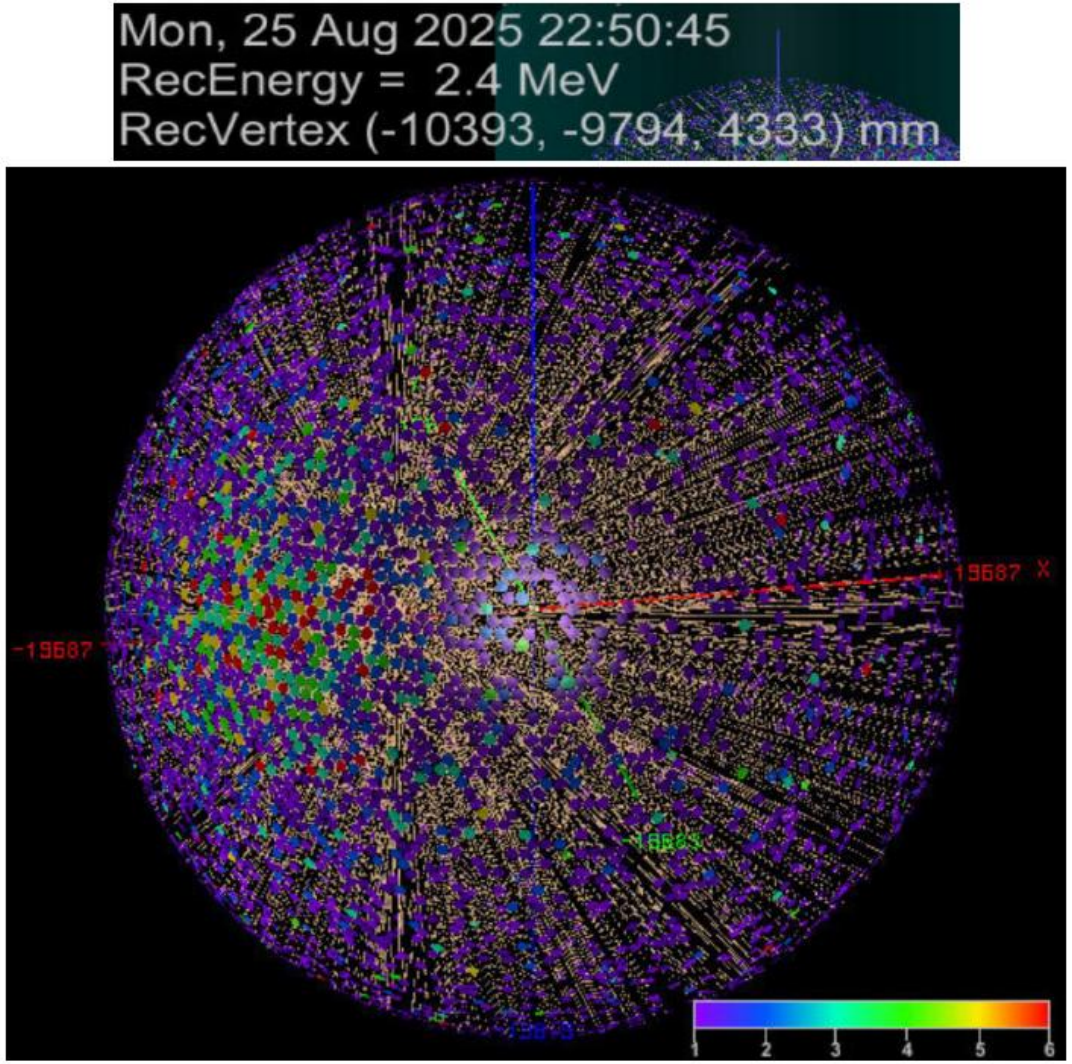
- Runs 4-6 uncertainty reduced by 1.8 times over Runs 1-3;
- Combined Fermilab Runs 1-6 reduces BNL uncertainty by a **factor of 4.3**

A typical reactor neutrino event

Zhiyuan Chen, Chinese Academy of Sciences

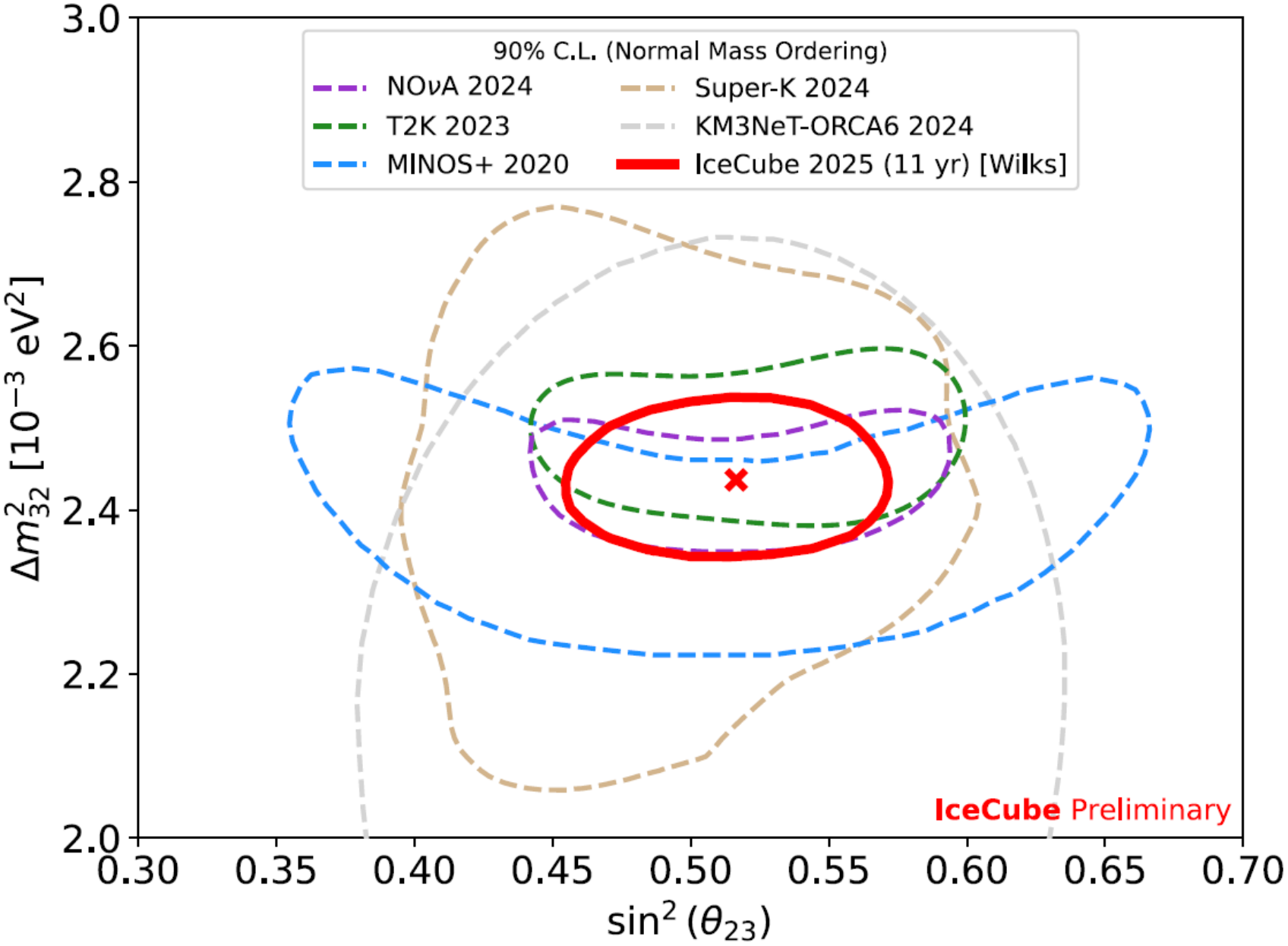


Prompt e^+ signal



Delayed neutron signal

ν_μ Disappearance

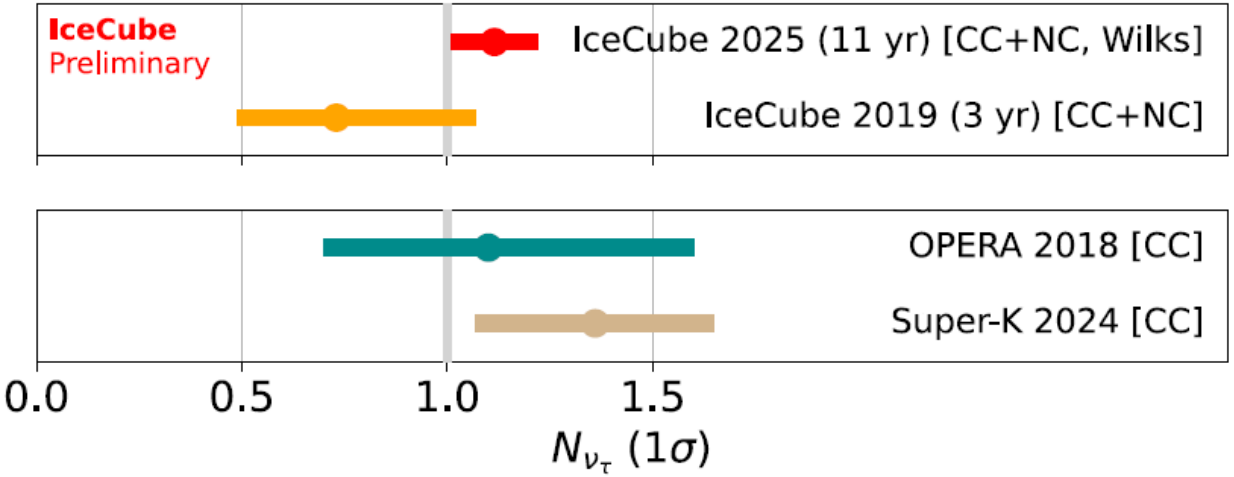


David Koskinen, Niels Bohr Institute

ν_τ Appearance

David Koskinen,
Niels Bohr
Institute

- Statistical measure of appearance of ν_τ from $\nu_\mu \rightarrow \nu_\tau$ oscillation
  - No individual event-by-event ν_τ identification
- PMNS mixing unitarity and Standard Model physics would result in $N_{\nu_\tau} = 1$



NuFact 2026 Shanghai

Kim Siang Khaw (kimsiang84@sjtu.edu.cn)

On behalf of the Nuclear and Particle Physics Group at Shanghai Jiao Tong University

李政道研究所 TSUNG-DAO LEE INSTITUTE

SJTUPA 上海交通大学物理与天文学院

31 Aug – 5 Sep, 2026

Shanghai, China

Shanghai (上海): Population ~ 24 million

- Financial center and transportation hub
- Two international airports (Hongqiao, Pudong)
- Three major high-speed railway stations
- The longest metro network in the world, 831 km!
- Affordable RideShare (Didi, Meituan), cost = 0.4 USD/km

Guangfulin（广富林）
5000 years old
archaeological site

Disneyland
For family and friends

Shanghai Snow World
World's largest indoor
ski resort

Shanghai Jiao Tong University

李政道研究所 TSUNG-DAO LEE INSTITUTE

SJTUPA 上海交通大学物理与天文学院

SJTU (上海交通大学) was established in 1896

- A comprehensive, research-focused university in Shanghai
- 7 campuses, 36 colleges and departments
- ~40,000 students, ~5,000 faculty
- Workshop Venue: Tsung-Dao Lee Institute (Zhangjiang Campus 张江校区)

SPA and T. D. Lee Library

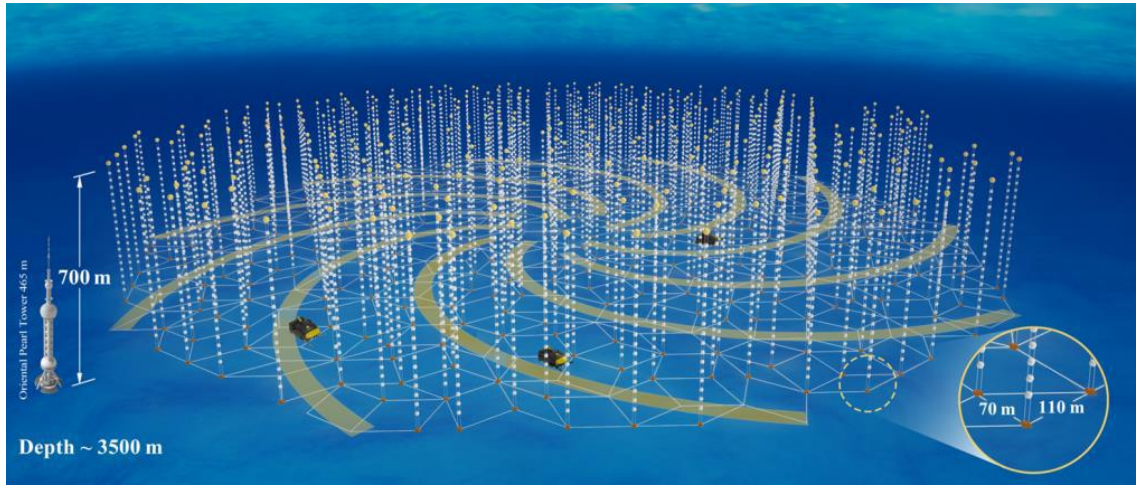
Tsung-Dao Lee Library

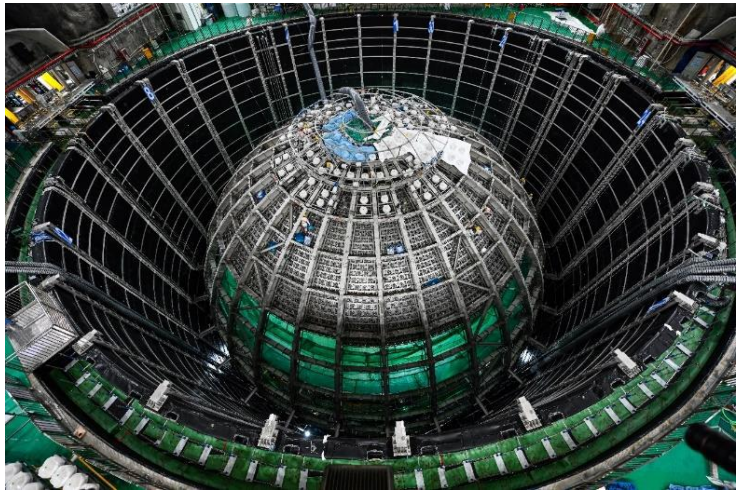
T. D. Lee's Nobel Prize Medal

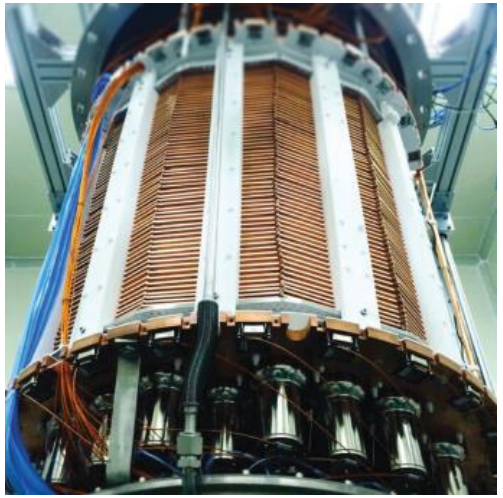
School of Physics and Astronomy (1928 -)

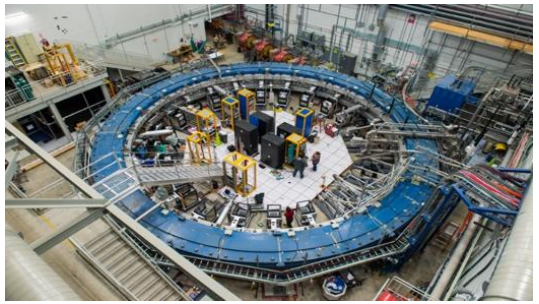
Institute of Nuclear and Particle Physics (2009 -)

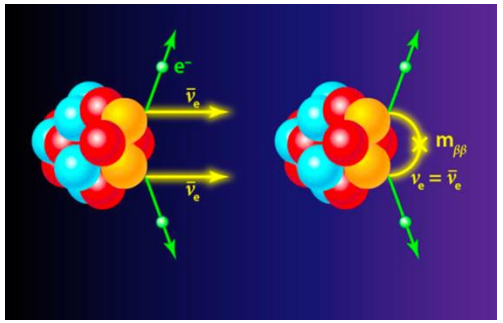
Physics related to NuFact

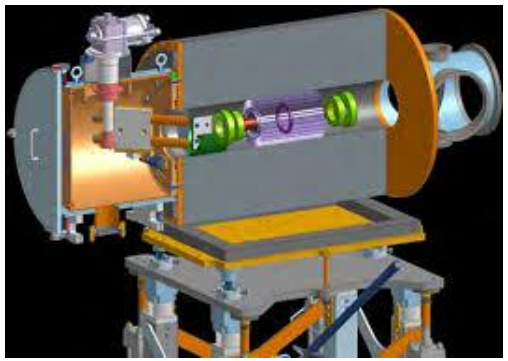




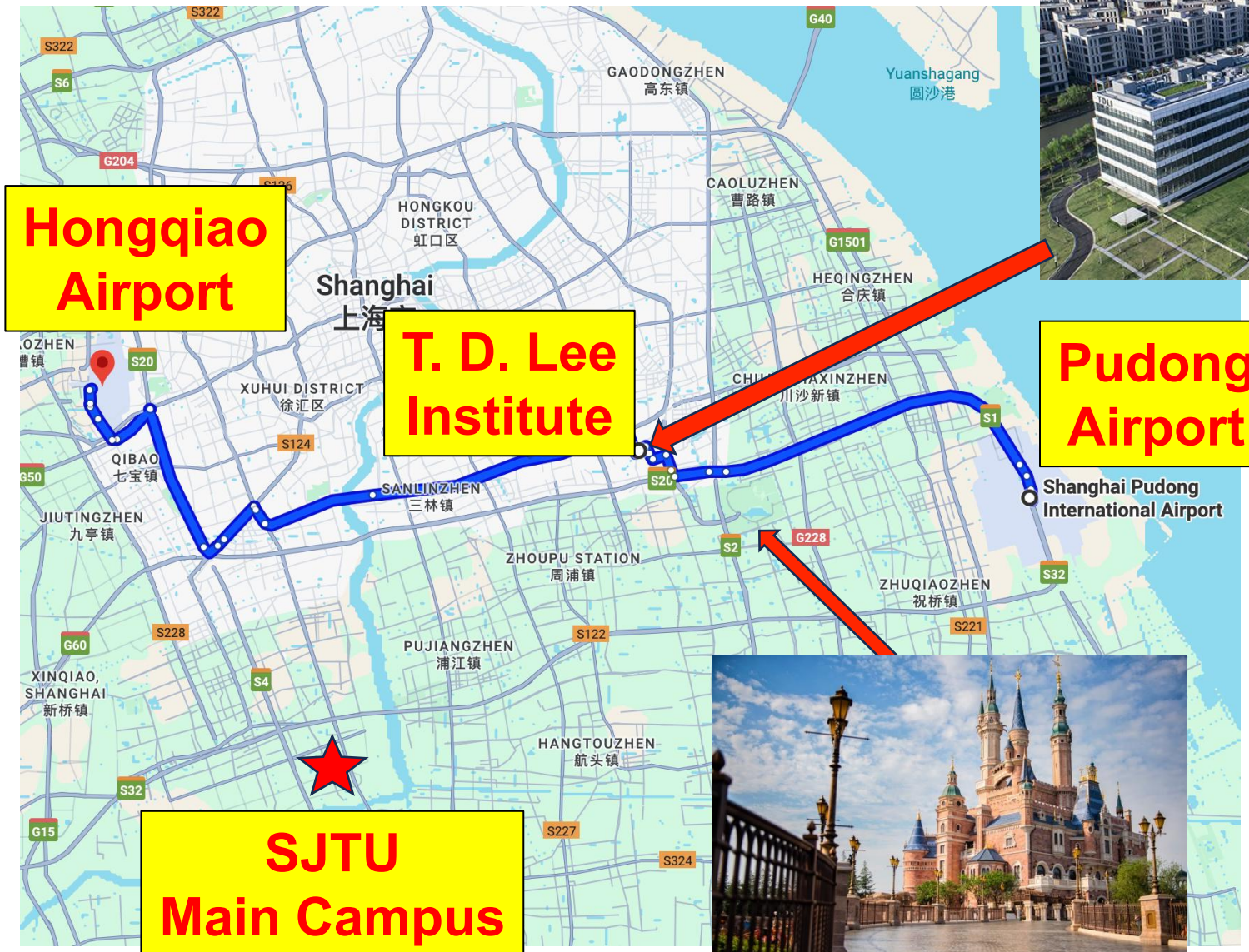








Ground Transportation

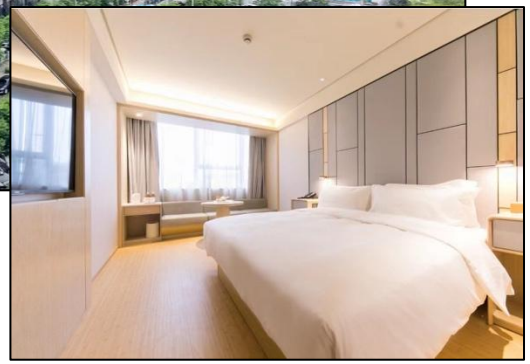


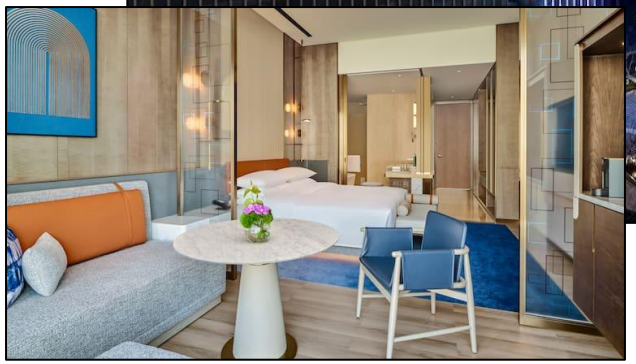
- **From Pudong Airport:**
  - 25 km, 25 mins by taxi (~13 USD)
- **From Hongqiao Airport / Railway:**
  - 40 km, 45-min by taxi (~18 USD)

Accommodation

Ji Hotel: ~ 65 USD/night (1.2 km to campus)
Plenty more options within 5 km of the campus (Zhangjiang Science Park)

- **Hilton Hotel ~ 125 USD/night**





Plenty of sightseeing options

The iconic trio in Shanghai

- a bottle opener
- a cooking syringe, and
- an egg whisk

With family? Love history?

Guangfulin（广富林）
5000 years old archaeological site

Zhujiajiao（朱家角）Ancient Town

Yu Garden（豫园）

Shanghai World Expo

Shanghai Disneyland

Shanghai Astronomy Museum

Regional Cuisines

李政道研究所
TSUNG-DAO LEE INSTITUTE

We look forward to welcoming you to Tsung-Dao Lee Institute and Shanghai!

NuFact 2026 @ Shanghai

30 Aug – 5 Sep, 2026

Thank you

- Thank you to our team without whom none of this would have happened.

- Angie Reid
- Saskia Charity
- Sam Jenkins
- Ellen Sandford
- Christos Touramanis
- Dominika Vasilkova (author of our logo)
- The Spine Team

Thank you

- But most of all thank you to Hannah Melia who put so much into helping arrange our conference and making it run smoothly, not to mention putting up with me!

See you at NuFACT 2026