



李政道研究所
TSUNG-DAO LEE INSTITUTE



SJTUPA
上海交通大学物理与天文学院

Proposal to host Lepton Photon 2027 at Shanghai

Tsung-Dao Lee Institute &
School of Physics and Astronomy
Shanghai Jiao Tong University



上海中心
Shanghai Tower

中国第一高楼

The Tallest Building of China



Shanghai, China



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Shanghai (上海): population of 24 million.

Financial center and transportation hub with

- Two international airports (Hongqiao, Pudong)
- Three major high-speed railway stations
- The 2nd longest metro network in the world, 831 km!



Guangfulin (广富林)
5000 years old
archaeological site



Disneyland
For family



Lujiazui (陆家嘴)
Financial center and
tourist spots

<http://www.sjtu.edu.cn>

- **SJTU was established in 1896**
- **Seven campuses, 36 colleges and departments**
- **~36000 students, ~2800 faculty**
- **A comprehensive, research-oriented, one of the top universities in China.**

Candidate conference venue with large auditoriums (~500 capacity) depending on number of registrants in 2027

Plan-A: On-site Minhang Campus/Pudong TDLI Campus

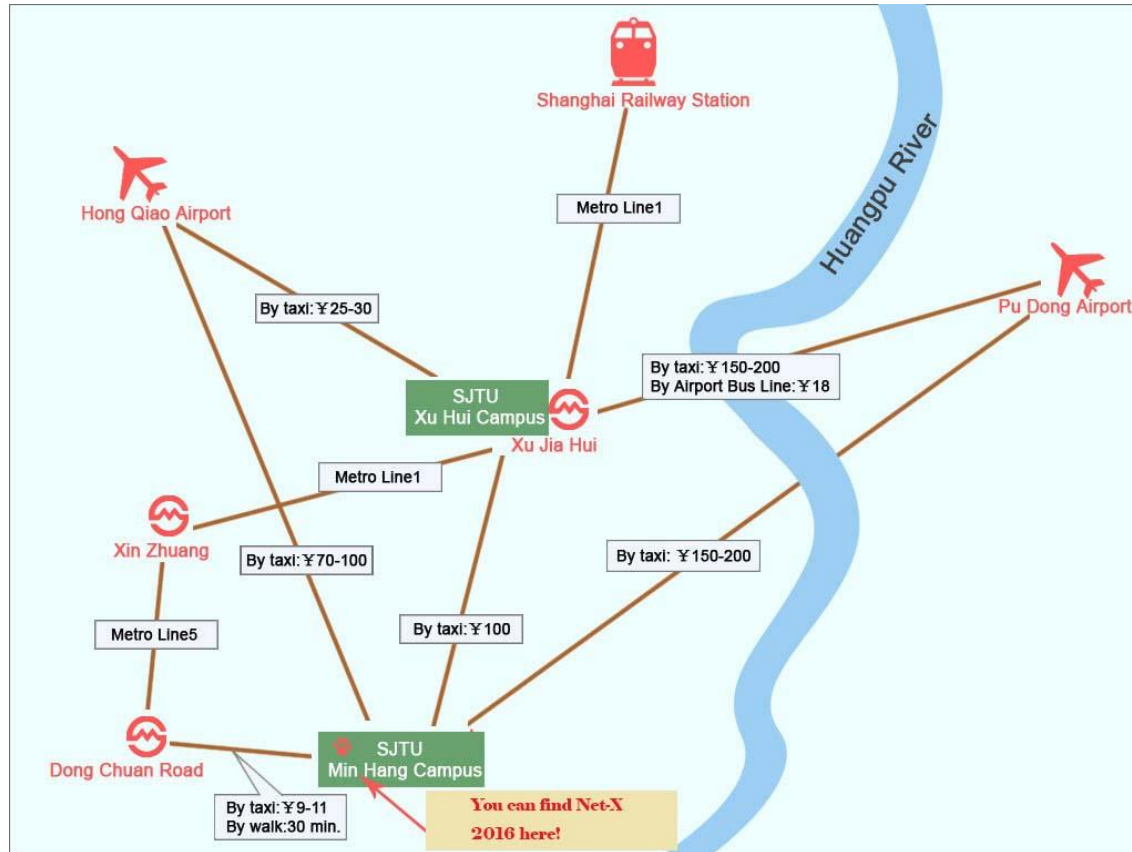
Plan-B: Larger auditorium in downtown or near-campus hotel



Ground Transportation



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- **From Pudong Airport:**
 - 50 km, 45-min by taxi (~26 EUR)
 - 1.5 hours by subways (~1 EUR)
- **From Hongqiao Airport / Railway:**
 - 25 km, 35-min by taxi (~12.5 EUR)
 - 1.5 hours by subways (~1 EUR)

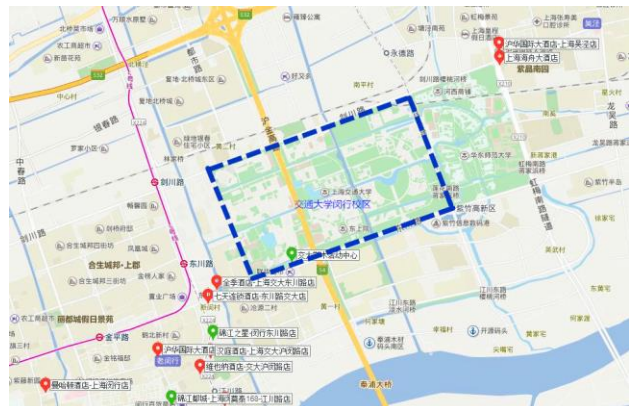
Accommodation



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- On-campus hotel: ~65 EUR/night (500m to campus)
- Quanji hotel: ~ 65 EUR/night (1.2km to campus)
- Everbright International Hotel: ~ 75 EUR/night (**downtown**)
- Radisson Blu Hotel Shanghai New World ~ 80 EUR/night (**downtown Skyscraper!**)



SPA and T.D. Lee Library



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School of Physics and Astronomy (1928 -)
Institute of Nuclear and Particle Physics (2009 -)



Tsung-Dao Lee Library



Tsung-Dao Lee Institute (2016-)



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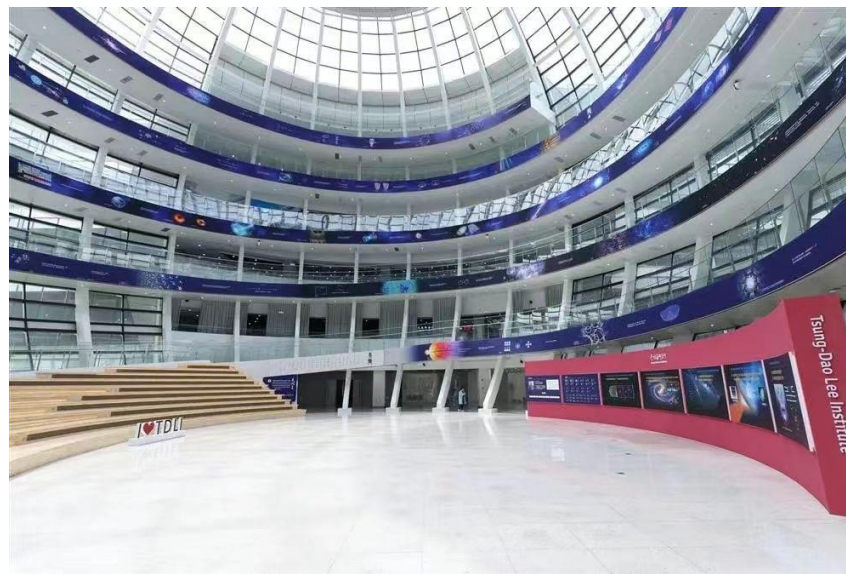


<http://tdli.sjtu.edu.cn/EN/>



Chief Scientist: Frank Wilczek (Nobel Prize 2004)
Director: Jie ZHANG (President of Chinese Physics Society)

~40% faculty members are international scholars!



International Connections



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Distinguished Visitors



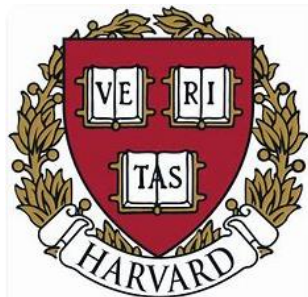
Luciano Maiani
CERN
Former Director General



John Ellis
King' s College
London

Francesco Sannino
University of
Southern Denmark

International Partners/Cooperators



Harvard



MIT



Caltech



Berkeley



Columbia



Michigan



Fermilab



CERN



Oxford



NORDITA
The Nordic Institute for Theoretical Physics

Local Organization



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• Local Organization Committee

- Experimentalists: Haijun Yang, Liang Li, Jun Guo, Ning Zhou, Shu Li, Kun Liu, Kim Siang KHAW, Weihao Wu
- Theorists: Michael Ramsey-Musolf, Xiao-Gang He, Hong-Jian He, Jun Gao, Wei Wang, Shao-Feng Ge, Jason Evans, Yuichiro Nakai

• Scientific Secretary

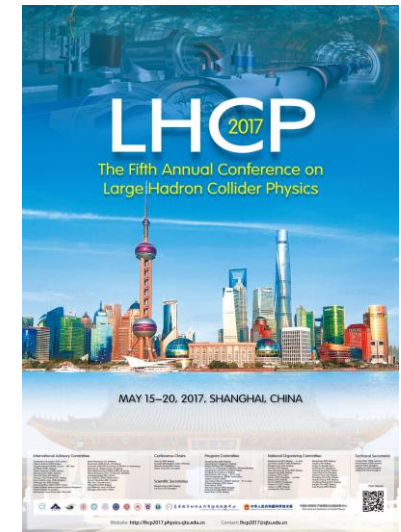
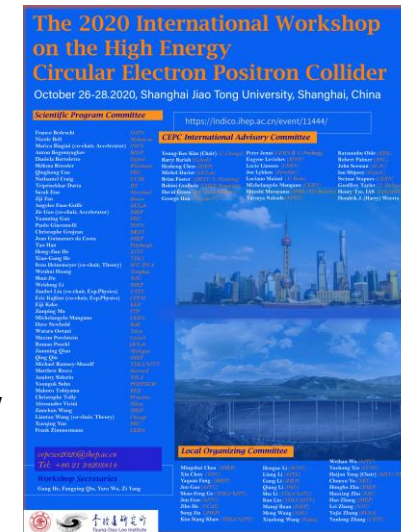
- Wen Wang, Zi Yang, Gang He, Fangying Qiu

• Conference Hosting Experience

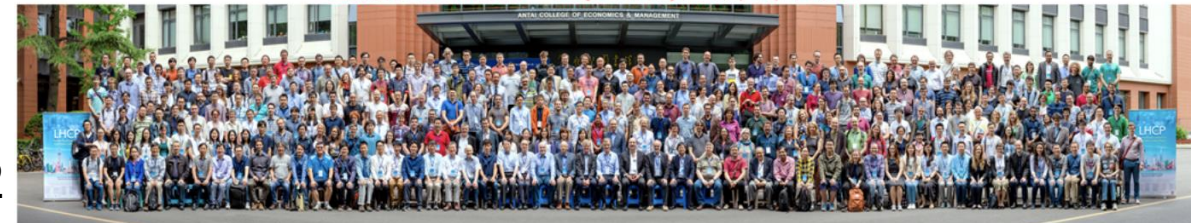
- **LHCP 2017**, CALICE 2018, CEPCWS 2020, MBI 2022
- CLHCP2023, **Texas Symposium 2023**

• Registration fee

- ≤ 450 EUR for faculty/postdoc
- Discounts and supports for students (TBD)



LHCP 2017
The 5th Annual Conference on Large Hadron Collider Physics (LHCP)
上海交通大学 2017年5月15-20日 Shanghai Jiao Tong University May 15-20, 2017



Particle Theory



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**7 Professors, 4 Associate Professors
~10 Postdocs, ~30 Students**



Xiao-Gang He



Xiangdong Ji



**Michael
Ramsey-Musolf**



**Tsutomu
Yanagida**



Hong-Jian He



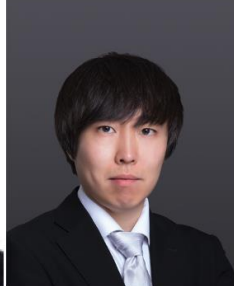
Wei Wang



**Jun
Gao**



**Shaofeng
Ge**



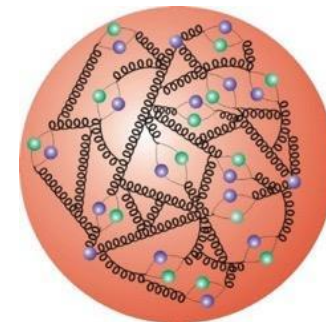
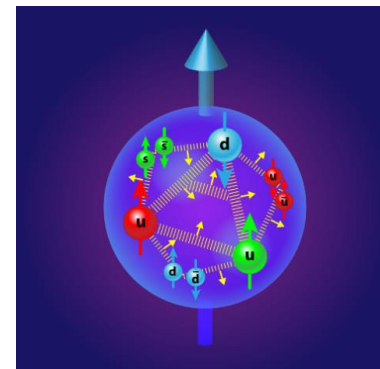
**Yuichiro
Nakai**



Jason Evans

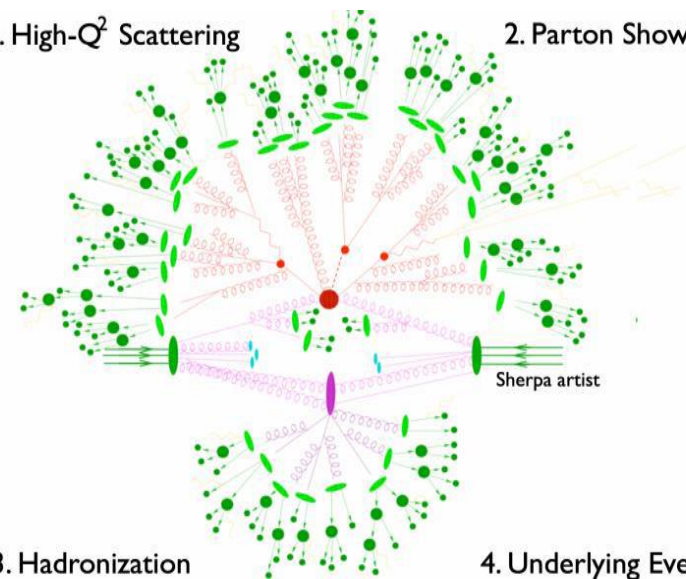


Kai Yan



1. High- Q^2 Scattering

2. Parton Shower



3. Hadronization

4. Underlying Event

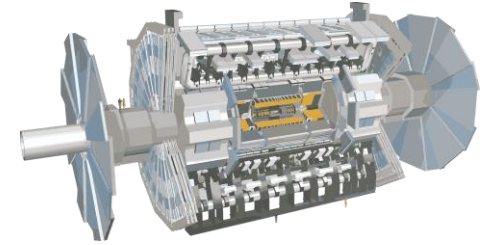
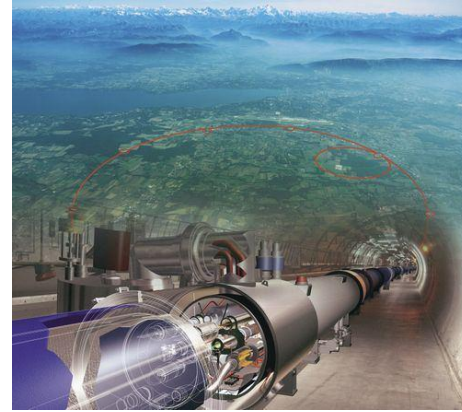
Accelerator-based Experiments



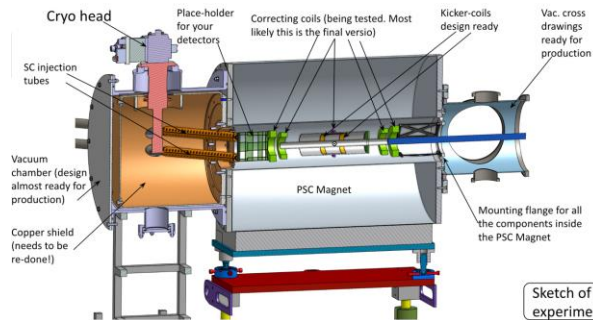
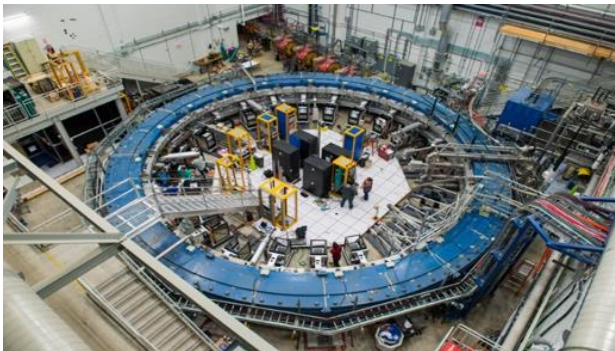
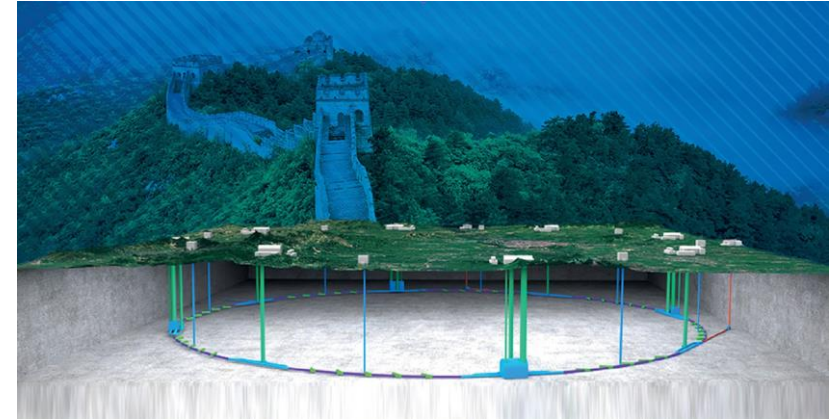
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- ATLAS at LHC (Higgs, BSM, SM, Top, upgrade)
- Muon g-2/EDM
- CEPC Physics and Detector R&D
- Dark SHINE Future Experiment R&D
- **Members:** 3 Professors, 5 Associate Professors
~10 Postdocs, ~20 Students



Haijun Yang **Liang Li** **Jun Guo** **Ning Zhou** **Shu Li** **Kim Siang Khaw** **Kun Liu** **Weihaowu**



Sketch of the experiment



Underground Experiments



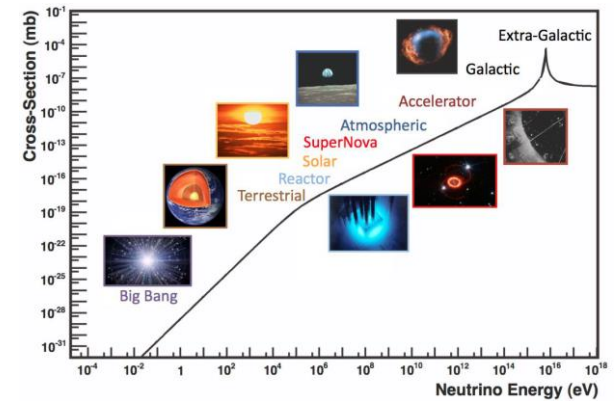
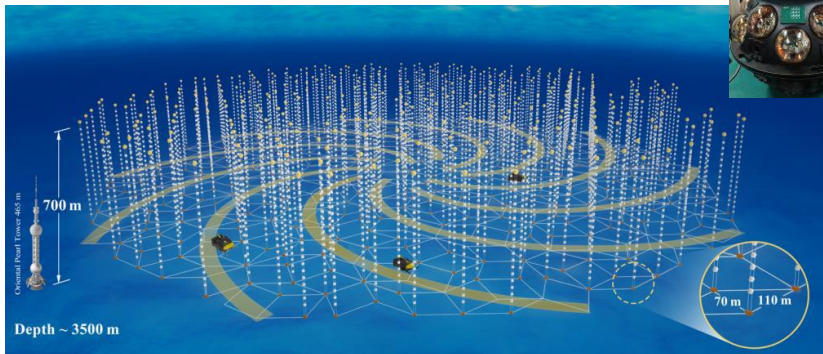
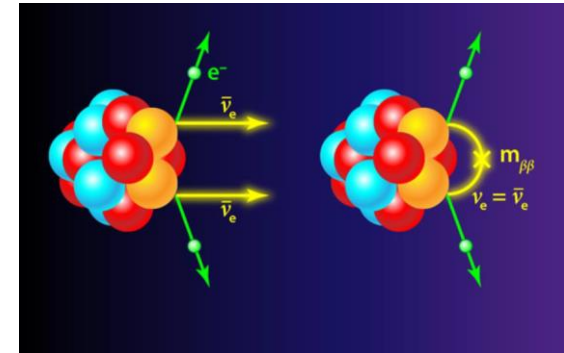
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- **PandaX**: search for Dark Matter with Xenon TPC
- **Daya Bay and JUNO**: Neutrino oscillation physics
- **PandaX-III & CUORE**: Neutrinoless double beta decay
- **Members**: 5 Professors, 5 Associate Professors
~10 Postdocs, ~25 Students, 6 engineers



Xiangdong Ji Jianglai Liu Karl Giboni Ke Han Yong Yang Ning Zhou Donglian Xu Yue Meng Junting Huang Mengjiao Xiao



Excursion option: Yu Garden and the Bund



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Excursion option: Oriental Pearl Tower & Riverside Promenade, Cruising Panorama



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Excursion option: Shanghai Museum & Nanjing Road



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