

Physics in Collision 2013

IHEP, Beijing, China

Sept. 4-7, 2013



Beijing – a historical city

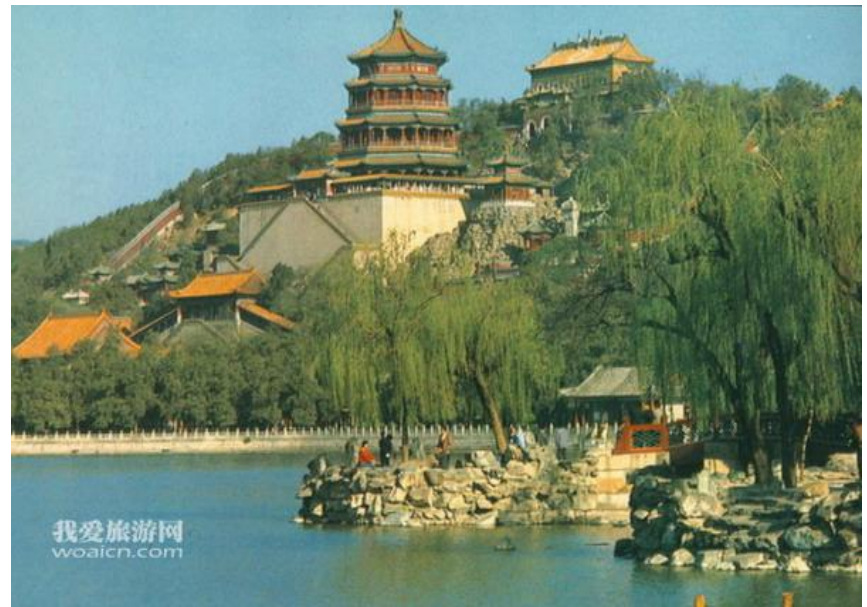
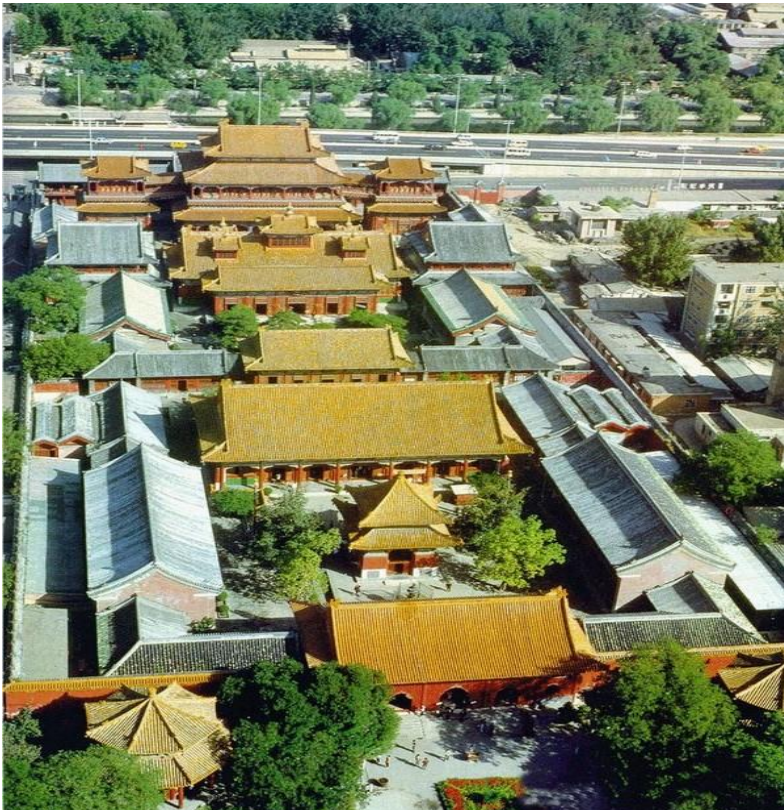
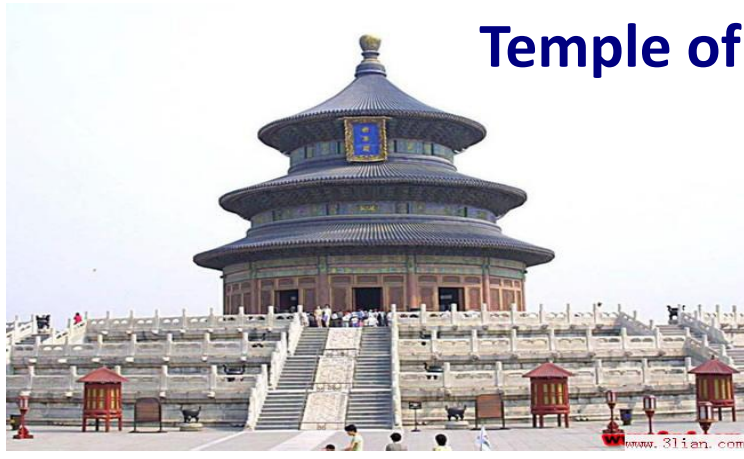


Forbidden City

Great Wall



Temple of Heaven



Lhama Temple

Summer Palace

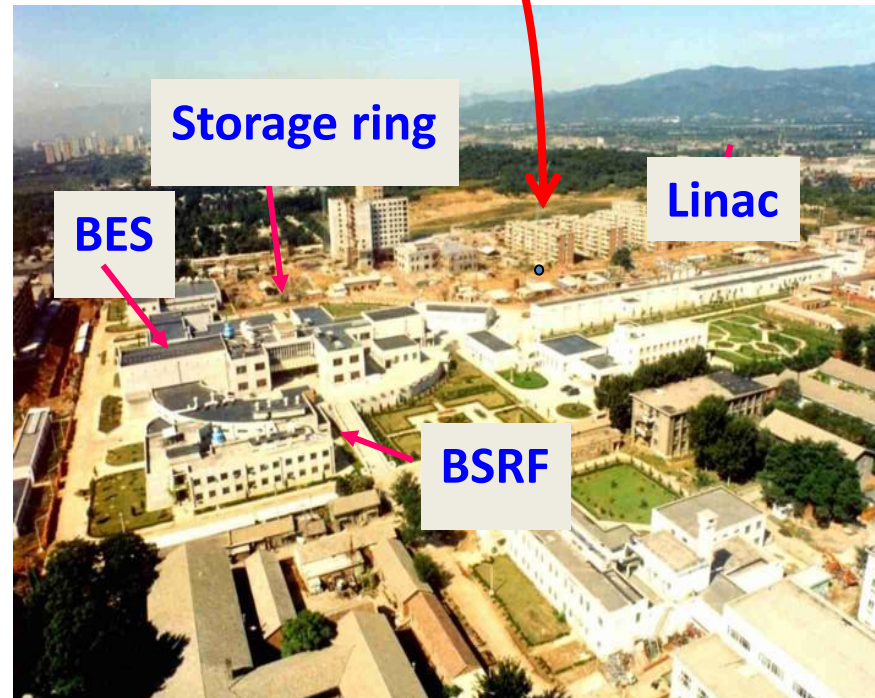
Institute of High Energy Physics (IHEP)

IHEP is the biggest and comprehensive fundamental research center in China. The major research fields:

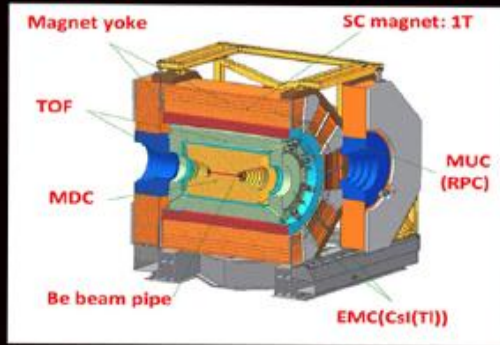
- **Particle physics experiments: BES, neutrino experiments, experiments at LHC and B-factories...**
- **Theoretical Physics**
- **Particle astrophysics: cosmic ray, astrophysics experiments...**
- **Accelerator physics and technology: high luminosity e+e- collider, high power proton accelerator, accelerator applications...**
- **Synchrotron radiation: technology and application;**
- **Nuclear analytical technique and application;**
- **Nuclear detector and fast electronics;**
- **Computing and network application.**

Main research facilities:

- Beijing Electron Positron Collider/Beijing Spectrometer (BEPC/BES)
- Beijing Synchrotron Radiation Facility (BSRF)
- Yangbajing International Cosmic Ray Observatory
- Daya Bay Reactor Neutrino Experiment

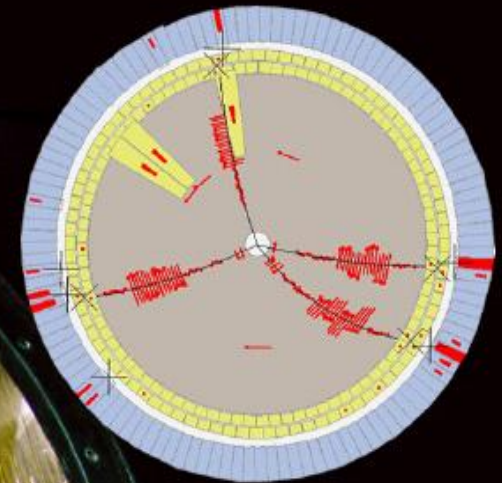
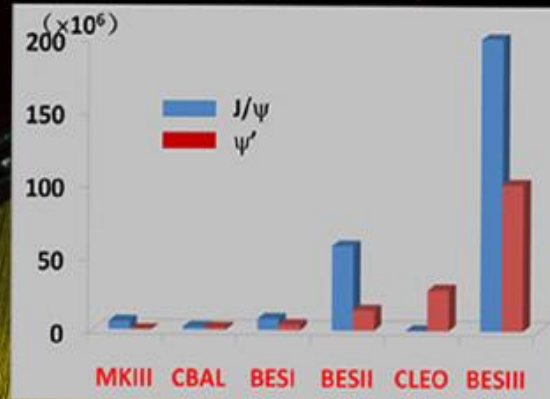


BESIII Experiment



BESIII started physics run in 2009. Totally about 100M psi' and 200M J/psi events have been collected. BESIII is running for psi (3770) data taking now. Fruitful physics results are coming on the searches of the glueballs, hybrids and multi-quark states, the systematic study of the light hadron spectroscopy, the study of the charmonium production and decays and the precise measurement of CKM matrix elements.

World J/ψ, ψ' data samples



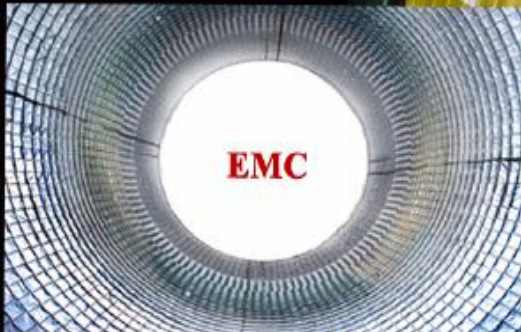
BESIII: large solid-angle magnetic spectrometer at Beijing Electron-Positron Collider (BEPC) for studies of Tau-charm physics.

MDC: small-celled, helium-based, 43 layers wire reso: 135 μm, dE/dx reso: 6%

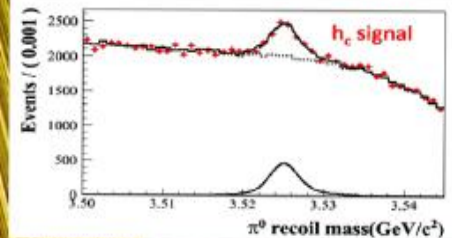
EMC: CsI (Tl) crystals arranged in barrel and two endcaps., 2.5% @ 1 GeV for barrel

TOF: two layers with plastic scintillators, 80ps for barrel TOF

MUC: RPC arranged in 9 layers in the barrel and 8 layers in the endcaps

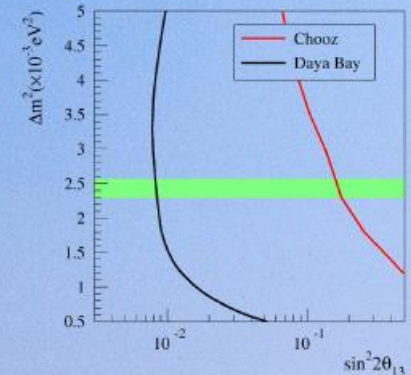


➤ Clear charmonium state h_c is observed at BESIII in $\psi' \rightarrow \pi^0 h_c$. The branching ratios of $\psi' \rightarrow \pi^0 h_c$ and $h_c \rightarrow \gamma \eta_c$ are measured for the first time.

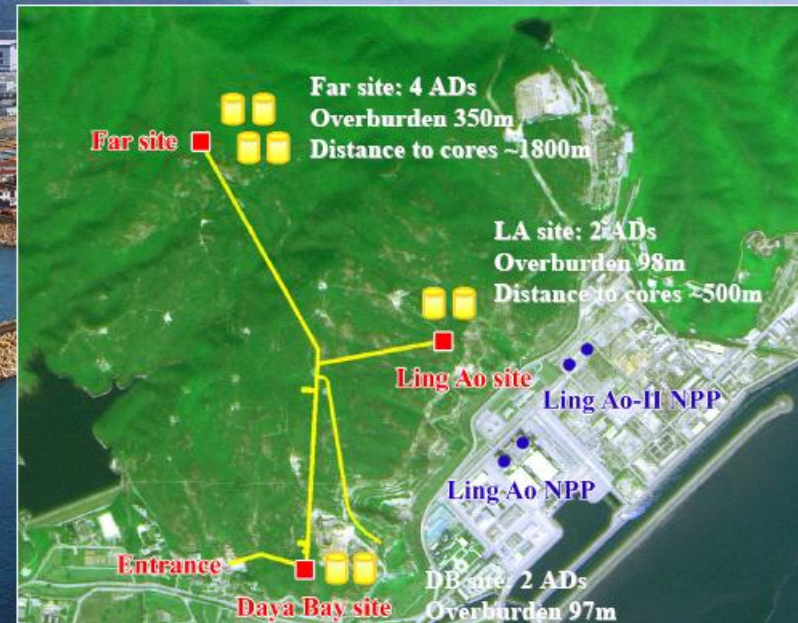
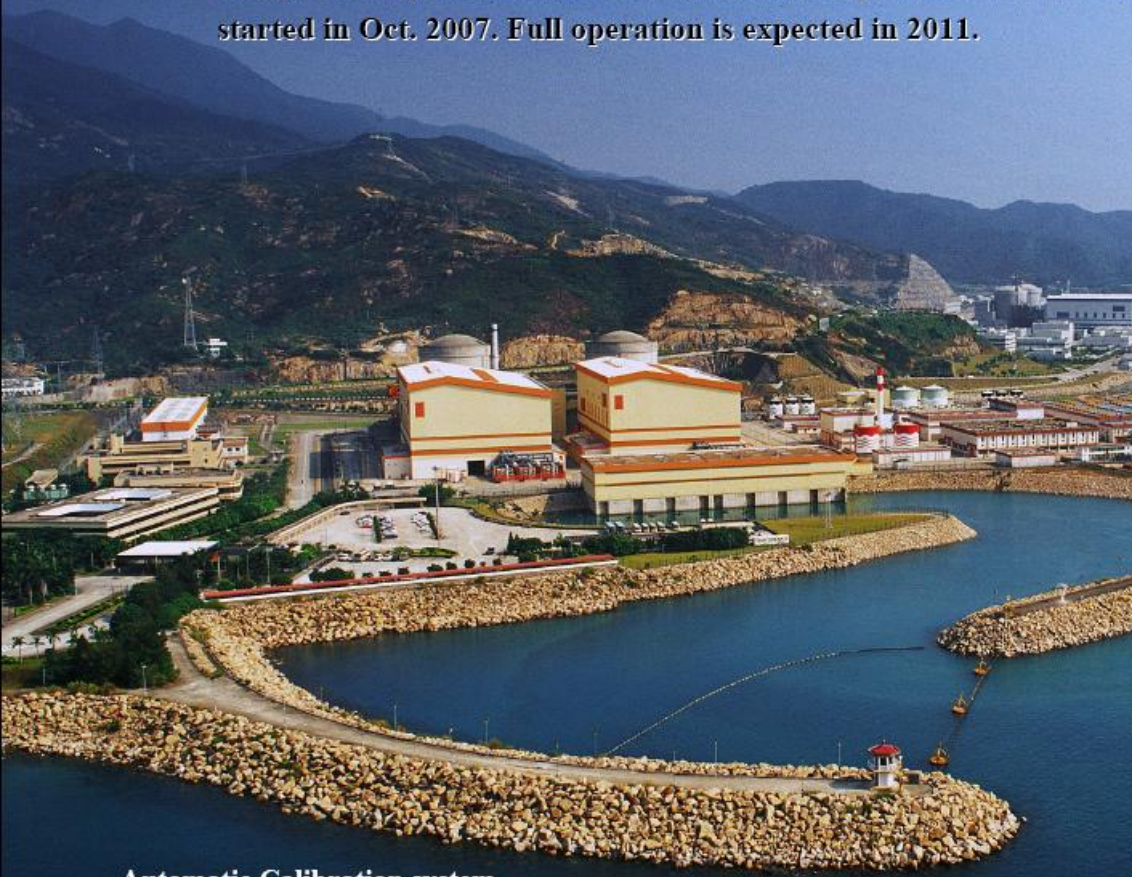


Daya Bay Reactor Neutrino Experiment

Daya Bay Reactor Neutrino Experiment is a neutrino oscillation experiment to determine the neutrino mixing angle θ_{13} . Daya Bay and Ling Ao Nuclear Power Plants in southern China have four 2.9-GW_{th} cores running. Another two will operate in 2011. The cores are very close to high hill, providing an excellent site for neutrino experiment. Civil construction started in Oct. 2007. Full operation is expected in 2011.



Sensitivity in $\sin^2 2\theta_{13}$ will be better than 0.01 at 90% CL with 3 years' full operation, an order better than existing limit.



Local Organizing Committee

- K. T. Chao (Peking Univ.)
- Y. N. Gao (Tsinghua Univ.)
- H. B. Li (Inst. of High Energy Phys.)
- S. Jin (Inst. of High Energy Phys.)
- C. Z. Yuan (Inst. of High Energy Phys.)
- X. Y. Shen (Inst. of High Energy Phys.)
- Z. Z. Zhao (Univ. of Sci. & Tech. of China)
- Y. H. Zheng (Univ. of CAS)

Secretary: Y. H. Jia

Meeting venue: IHEP



1 meeting room for 300 people



2 meeting rooms for 110 people each



Some rooms for about 50 people



Space for posters

Accommodation

- IHEP guest house

Located in the IHEP campus, 2 stars, 46 rooms

- 2 suites: 400 RMB (\$65)/night, room
- 17 standard rooms (2 beds, bath): 280 RMB (\$45)/night, room
- 24 normal rooms(2 beds, shower): 230 RMB (\$36)/night, room
- 3 single rooms (single bed, shower): 180 RMB (\$28)/night, room

All rooms are equipped with air conditioning, TV, telephones, refrigerator, free internet connection.



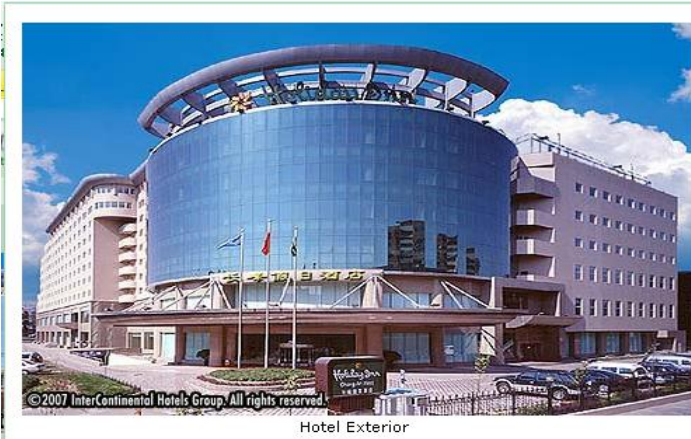
IHEP Guest House: Standard Room



IHEP Guest House: Suite

Accommodation

- **Holiday Inn Chang An West Beijing**
About 1.5 km away from IHEP conference room, 4 stars



Hotel Exterior

Holiday Inn Chang An West Beijing



lobby



room

Holiday Inn Chang An West offers IHEP a special rate for conference at a price of ~600 RMB (\$90) per night for standard room. Buffet breakfast and service charge fee are all included.

How to get to IHEP

IHEP is about 40km away from Beijing Capital Airport.

- By taxi:
You can get to the taxi station following the sign. The fare is about 150RMB.
- By Subway:
take **Airport Line** to **San Yuan Qiao (三元桥) Station**;
transfer to **Line 10** in **San Yuan Qiao (三元桥) Station**, get off in **Guo Mao (国贸) station**;
transfer to **Line 1** in **Guo Mao (国贸) station**, get off in **Yu Quan Lu (玉泉路) station**;
take the north-west exit (Port A). The IHEP campus is just at the north-west corner of the traffic cross. [[map](#)].
- By airport shuttle bus:
take **Airport Shuttle Bus** from the airport to **Gong Zhu Fen (公主坟) station**.
The fare is 16RMB. Then you can take taxi to the Hotel or the Guest House.
The fare is about 20RMB.

Social events

- **Evening event:**

The famous Chinese traditional style tea house --- Laoshe Tea House is the most attractive place to taste Chinese traditional culture. Beijing (Peking) opera and other native art performances will also be the options for evening events.



Laoshe Tea House

- **Excursion**

Guided tour to Great Wall, Ming Tomb

Other options:

Summer Palace

Welcome to PIC2013

Welcome to Beijing, China