



JOINT WORKSHOP OF THE CEPC PHYSICS, SOFTWARE AND NEW DETECTOR CONCEPT

April 14–17, 2021

Yangzhou Convention Center, Jiangsu province, China

<https://indico.ihep.ac.cn/event/13888>

SCIENTIFIC PROGRAM COMMITTEE

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Yaquan Fang (IHEP) Co-Chair
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Xingtao Huang (SDU)
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Haijun Yang (SJTU)
Lei Zhang (NJU)
Hongbo Zhu (IHEP)
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Yaquan Fang (IHEP) Co-Chair
Fanqin Kong (Yangzhou Univ.)
Kun Liu (SJTU)
Jie Qian (Yangzhou Univ.)
Weimin Song (JLU)
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Hongjuan Xu (IHEP)
Kai Yi (NNU) Co-Chair
Fengyun Yu (Yangzhou Univ.)

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I . About CEPC

We appreciate your participation in the Joint Workshop of the CEPC Physics, Software and New Detector Concept at Yangzhou, April 14th to 17th. The workshop is co-sponsored by Yangzhou University, Nanjing Normal University and IHEP.

The Circular Electron Positron Collider (CEPC) aims at a future Large Scale Collider facility. Installed in a 100 km tunnel, the CEPC could produce 1 Million Higgs bosons, 100 Million W bosons, and nearly 1 trillion Z bosons in 10 years' operation. The prior physics motivation of CEPC is to serve as a precise Higgs factory, meanwhile, it also has a huge physics potential in the EW, QCD, Flavor physics and new physics hunting.

The purpose of the workshop is to further understand the physics potential at CEPC as well as the requirements on the detector. The physics discussions during the workshop will be dedicated to a CEPC physics white paper. The goal for the detector discussions are to plan for an innovative detector design for the CEPC, beyond those described in the CDR, and that will utilize new detector technologies and concepts.

II . Committees

Scientific Program Committee:

Name	Institute	Name	Institute
Xin Chen	THU	Lianliang Ma	SDU
Yaquan Fang (Co-Chair)	IHEP	Jialun Ping	NNU
Yuanning Gao	PKU	Jianming Qian	Michigan Univ.
Hongjian He	SJTU	Michael Ramsey	SJTU
Xingtao Huang	SDU	Manqi Ruan(Co-Chair)	IHEP
Shan Jin	NJU	Jianchun Wang(Chair)	IHEP
Gang Li	IHEP	Liantao Wang	Chicago Univ.
Haibo Li	IHEP	Zhenjun Xiao	NNU
Qiang Li	PKU	Haijun Yang	SJTU
Weidong Li	IHEP	Lei Zhang	NJU
Zhijun liang	IHEP	Hongbo Zhu	IHEP
Jianbei Liu	USTC	Huaxing Zhu	ZJU

Local Organizing Committee:

Name	Institute	Name	Institute
Yaquan Fang(Co-Chair)	IHEP	Yaru Wu	IHEP
Fangqin Kong	Yangzhou Univ.	Tianhong Xing	IHEP
Kun Liu	SJTU	Da Xu	IHEP
Jie Qian	Yangzhou Univ.	Hongjuan Xu	IHEP
Weimin Song	JLU	Kai Yi(Co-Chair)	NNU
Chunyu Wang(Chair)	Yangzhou Univ.	Fengyun Yu	Yangzhou Univ.
Jin Wang	IHEP		

Workshop secretaries:

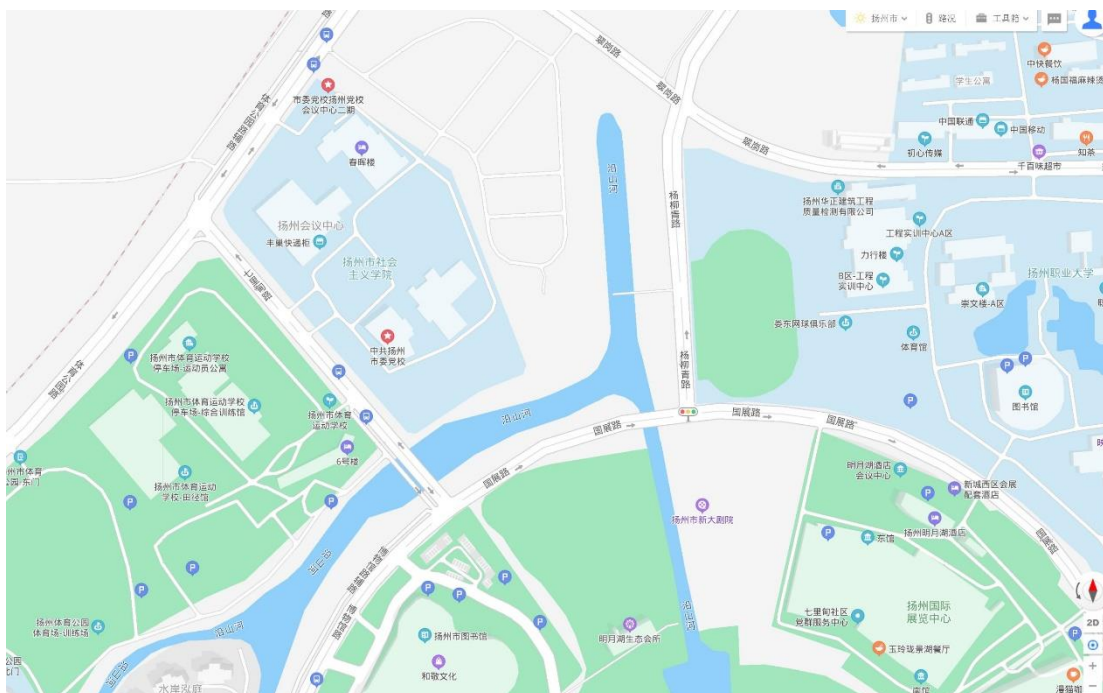
Fengyun Yu, fyyu@yzu.edu.cn, 136 6524 8072

Hongjuan Xu, xuhj@ihep.ac.cn, 152 1043 1173

III. General Information

1. Location

Chunhui Building, Yangzhou Convention Center, No.1 Qilidian Road, Hanjing District
(扬州市邗江区七里甸路 1 号扬州会议中心)

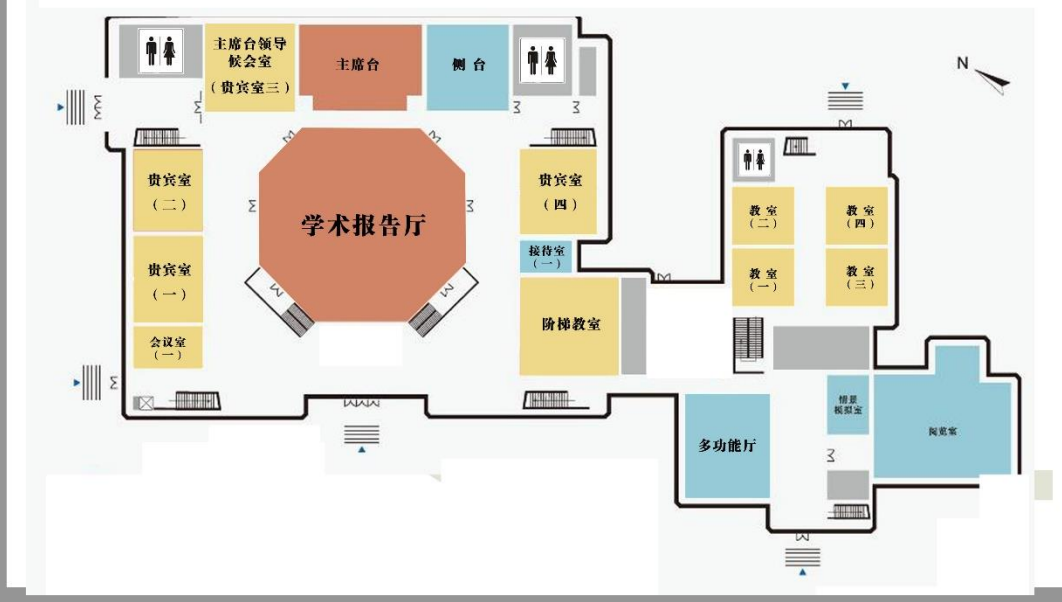




扬州会议中心楼宇分布图



群贤楼 (3号楼) 会议室分布图 (一楼)



2. Registration

Date

From April 13, 13:00-17:00 p.m.

Address

Chunhui Building, Yangzhou Convention Center, No.1 Qilidian Road, Hanjing District
(扬州市邗江区七里甸路 1 号扬州会议中心春晖楼大厅)

Registration fee

- RMB 1600 / person for in-person participants, to be paid on site. Do not accept cash.
(现场支付注册费，不支持现金支付，持公务卡须刷卡支付)
- RMB 800 / person for in-person postdocs & students, to be paid on site. Do not accept cash. (现场支付注册费，不支持现金支付)
- NO registration fee for online participants

-Invoices will be issued after payment, please prepare your invoice information in advance.

3. Lunch, Dinner and Banquet

Lunch & Dinner buffet and Banquet (April 15th): 1ST floor, NO.2 Building 春台庆禧厅
(二号楼春晖楼一层---春台庆禧厅)

4. Transportation

By air

The airport is Yangzhou-Taizhou International Airport.

Taxi: 49KM, ~50minutes, ~110RMB

Bus: Take airport bus at Yangzhou Taizhou airport Bus Station to Yangzhou City Terminal(one stop, 51 mins), and transfer by line 1 bus at Lianzheng Square to North Gate of Administration Institute(10 stops, 17 mins), and then walk about 100 meters, you will see the Convention Center.

By train

There are two railway stations in Yangzhou. One is Yangzhou Station and other one is Yangzhou East Station.

Yangzhou Station:

Taxi: 3KM, 9 minutes, ~10RMB

Bus: Take line 1 bus at Yangzhou railway station to Administration Institute(4 stops, 10 minutes), and then walk about 100 meters, you will see the Convention Center.

Yangzhou East Station

Taxi: 19KM, ~50mins, ~45RMB

Bus: Take line 71 at East Passenger Hub Station to China Block Printing Museum · Yangzhou Museum(24 stops, one hour). After getting off, you need to walk 1KM to the Convention Center.

扬州电子公交卡 Yangzhou elec. bus card :

**Step1: 打开“支付宝”；在搜索栏中填写“扬州市民卡”并选择。
Open "Alipay"; fill in "扬州市民卡" in the search bar and click it.**



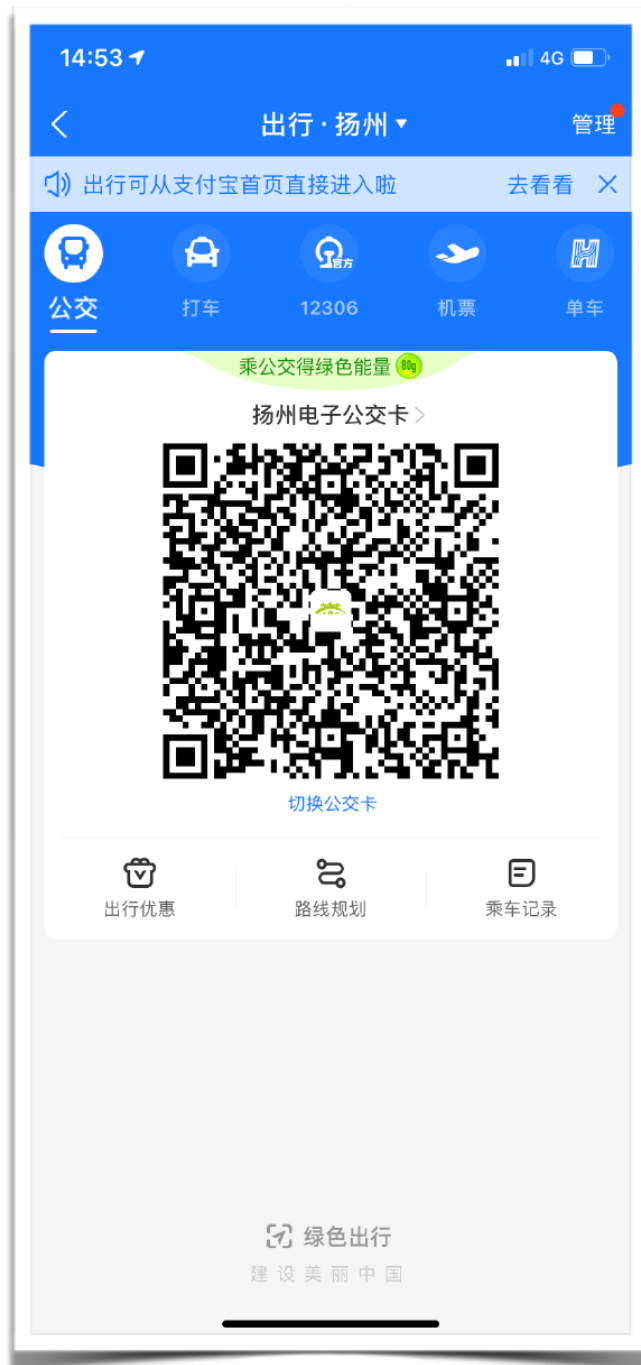
Step2: 选择该二维码，到达领卡页面。
Select the QR code to reach the card collection page.



Step3: 输入相关信息，领取扬州电子公交卡 + 您的支付宝密码。
Enter the required info., receive the Yangzhou elec. bus card + your Alipay password.



完成后, 即可使用随机二维码乘坐扬州公交车 🚌
Take a bus in Yangzhou with your QR code.



IV. Remote ZOOM Connection

April 14, 2021 Morning Plenary meeting

Topic 主题: CEPC 物理和探测器研讨会(Physics & Detector)

Meeting ID 会议号: 67241234647

Meeting URL 会议链接: [https://weidijia.zoom.com.cn/j/67241234647?](https://weidijia.zoom.com.cn/j/67241234647?pwd=Y3hnRG5DMk85OUJUdUIXY2JqOHF5dz09)

[pwd=Y3hnRG5DMk85OUJUdUIXY2JqOHF5dz09](https://weidijia.zoom.com.cn/j/67241234647?pwd=Y3hnRG5DMk85OUJUdUIXY2JqOHF5dz09)

Password 会议密码: 732446

April 14, 2021 Afternoon parallel meeting

Parallel 1

Topic 主题: CEPC 探测器研讨会(Detector)

Meeting ID 会议号: 68980478518

Meeting URL 会议链接: [https://weidijia.zoom.com.cn/j/68980478518?](https://weidijia.zoom.com.cn/j/68980478518?pwd=YjdVbTRzcDAyR3JYNktwVWRNMDB2dz09)

[pwd=YjdVbTRzcDAyR3JYNktwVWRNMDB2dz09](https://weidijia.zoom.com.cn/j/68980478518?pwd=YjdVbTRzcDAyR3JYNktwVWRNMDB2dz09)

Password 会议密码: 913889

Parallel 2

Topic 主题: CEPC 物理研讨会(Physics)

Meeting ID 会议号: 62324452075

Meeting URL 会议链接: [https://weidijia.zoom.com.cn/j/62324452075?](https://weidijia.zoom.com.cn/j/62324452075?pwd=WnZzWlhYZ2xkdFE0cW5QdHITNmhodz09)

[pwd=WnZzWlhYZ2xkdFE0cW5QdHITNmhodz09](https://weidijia.zoom.com.cn/j/62324452075?pwd=WnZzWlhYZ2xkdFE0cW5QdHITNmhodz09)

Password 会议密码: 899139

April 15, 2021 parallel meeting

Parallel 1

Topic 主题: CEPC 物理研讨会(Physics)

Meeting ID 会议号: 66135748304

Meeting URL 会议链接:: <https://weidijia.zoom.com.cn/j/66135748304?pwd=YXpRRjdwOEkrNkJRyM4VkpNeDRxZz09>

Password 会议密码: 143788

Parallel 2

Topic 主题: CEPC 探测器研讨会(Detector)

Meeting ID 会议号: 68374054603

Meeting URL 会议链接:: <https://weidijia.zoom.com.cn/j/68374054603?pwd=V3REZDZyVHRIYkllYlhFc2kycjVxUT09>

Password 会议密码: 276554

April 16, 2021 parallel meeting

Parallel 1

Topic 主题: CEPC 物理研讨会(Physics)

Meeting ID 会议号: 62781930983

Meeting URL 会议链接:: <https://weidijia.zoom.com.cn/j/62781930983?pwd=TIJXTjVZRUpPcndmS3M2eUxpVmJ0UT09>

Password 会议密码: 354997

Parallel 2

Topic 主题: CEPC 探测器研讨会(Detector)

Meeting ID 会议号: 62375065708

Meeting URL 会议链接:: <https://weidijia.zoom.com.cn/j/62375065708?pwd=Zmt1TXVUS2RqQUdRZ0JMVFFvcko5QT09>

Password 会议密码: 923421

Parallel 3

Topic 主题: Young Scientist Forum

Meeting ID 会议号: 64721472690

Meeting URL 会议链接:: <https://weidijia.zoom.com.cn/j/64721472690?pwd=Z0hvQ0N0SGE0RINRb0Y5V0hGR1lidz09>

Password 会议密码: 334751

April 17, 2021 Morning Plenary meeting

Topic 主题: CEPC 物理和探测器研讨会(Physics & Detector)

Meeting ID 会议号: 65220583747

Meeting URL 会议链接:: <https://weidijia.zoom.com.cn/j/65220583747?pwd=OUVRblFsU1hjS05XWXhCWjI3RFhFQT09>

Password 会议密码: 982361

V . Scientific program

Joint Workshop of the CEPC Physics, Software and New Detector Concept

from Wednesday, April 14, 2021 at 08:00 to Saturday, April 17, 2021 at 12:40 (Asia/Shanghai)
at YangZhou

Chunhui Building, Yangzhou Convention Center, No.1 Qilidian Road, Hanjiang District (扬州市邗江区七里甸路1号扬州会议中心春晖楼)

[Manage](#)

Description The Joint Workshop of the CEPC Physics, Software and New Detector Concept will take place on April 14-17, 2021 in Yangzhou, China (the registration starts from the afternoon of April 13th). The workshop is co-sponsored by Yangzhou University, Nanjing Normal University and IHEP.

The Circular Electron Positron Collider (CEPC) aims at a future Large Scale Collider facility. Installed in a 100 km tunnel, the CEPC could produce 1 Million Higgs bosons, 100 Million W bosons, and nearly 1 trillion Z bosons in 10 years' operation. The prior physics motivation of CEPC is to serve as a precise Higgs factory, meanwhile, it also has a huge physics potential on the EW, QCD, Flavor physics and new physics hunting.

The purpose of the workshop is to further understand the physics potential at CEPC as well as the requirements for the detector. The physics discussion in the workshop will be dedicated to a CEPC physics white paper. The goal for the detector discussion is to plan for an innovative detector design for the CEPC, beyond those described in the CDR, and that will utilize new detector technologies and concepts.

We are looking forward to your active participation and expect to meet you in Yangzhou during "烟花三月".

(身负千万卷，骑鹤下扬州；细雨盼春芬，前方论高能。)

Registration

- Date

From April 13, 13:00-17:00 p.m.

- Address

Chunhui Building, Yangzhou Convention Center, No.1 Qilidian Road, Hanjing District

(扬州市邗江区七里甸路1号扬州会议中心春晖楼大厅)

- Registration fee

- RMB 1600 / person for in-person participants, to be paid on site. Do not accept cash. Please swipe the bank card if holding the civil service card.(现场支付注册费，不支持现金支付，持公务卡须刷卡支付)

- RMB 800 / person for in-person postdocs & students, to be paid on site. Do not accept cash. (现场支付注册费，不支持现金支付)

- NO registration fee for online participants

- Contacts

Hongjuan Xu 徐红娟 (IHEP): 152 1043 1173; xuhj@ihep.ac.cn

Material: [Remote ZOOM Connection](#) 

Xu Hongjuan 徐红娟 **Email:** xuhj@ihep.ac.cn **Telephone:** 010-88236061

[Go to day](#)

Wednesday, April 14, 2021

09:00 - 12:00

Plenary I

Conveners: Mr. Chunyu Wang, Haijun Yang (Shanghai Jiao Tong University)

Location: No.2 Building (2nd Floor春园桃李厅)

09:00 **Welcome remark 10'**

Speaker: Chunyu Wang

09:10 **Welcome and introduction of Yangzhou University 10'**

Speaker: Jianye Huang

09:20 **Opening remark 10'**

Speaker: Prof. Yifang Wang (高能所)

09:30 **Status of the CEPC and outlook 20'**

Speaker: Prof. Xinchou LOU (高能所)

09:50 **Group photo & Coffee break 40'**

10:30 **CEPC physics goals 30'**

Speaker: Liantao Wang (University of Chicago)

Loading [MathJax]/extensions/tex2jax.js **Progress of the CEPC detector R&D 30'**

Speaker: Joao Guimaraes Costa

11:30 **Towards physics white papers 15'**

Speaker: RUAN Manqi

11:45 **Plan of the fourth conceptual detector 15'**

Speaker: Jianchun Wang (IHEP)

12:00 - 13:30 Lunch (NO.2 Building (1st floor-春台庆禧厅))

13:30 - 18:00 Detector and Software - Session I

Conveners: Lei Zhang (Nanjing University), Prof. Qun OUYANG (IHEP)

Location: No.3 Building (1st floor, VIP Meeting Room 2(贵宾室2))

13:30 **Progress and planning of the Vertex detector 30'**

Speaker: Prof. Zhijun Liang (IHEP)

14:00 **Progress of the TaichuPix chip 30'**

Speaker: Mr. Wei WEI (高能所)

14:30 **Progress of the JadePix chip 30'**

Speaker: Dr. Yunpeng LU (Institute of High Energy Physics, CAS)

15:00 **Wireless readout and control 30'**

Speaker: Mr. 俊胡 (高能所)

15:30 **break 30'**

16:00 **Progress and planning of the Silicon Tracker 30'**

Speaker: Harald Fox (Lancaster University)

16:30 **HV-CMOS sensor design and test 30'**

Speaker: Jaap Velthuis

17:00 **Tracking for Silicon Tracker at CEPC 30'**

Speaker: Chengdong FU (IHEP)

17:30 **Plan of the TDAQ 30'**

Speaker: Prof. Zhen An LIU Zhenan (IHEP)

13:30 - 18:00 Higgs

Conveners: Prof. Yaquan FANG Yaquan (高能所), Prof. Mingshui CHEN (IHEP)

Location: No.3 Building (1st floor, VIP Meeting Room 1(贵宾室1))

13:30 **Beam parameters at CEPC ttbar runs 27'**

Speaker: Mr. 毅伟王 (高能所)

13:57 **Top coupling measurement with 360 GeV at CEPC 27'**

Speaker: Dr. Zhen Liu (FNAL)

14:24 **Higgs measurement at CEPC and its implication on 2HDM models 27'**

Speaker: Prof. Shufang Su (University of Arizona)

14:51 **Top quark measurement at CEPC ttbar threshold scan 27'**

Speaker: Prof. Xiaohu SUN (Peking University)

15:18 **Higgs precision measurement at CEPC ttbar run 27'**

Speaker: Kaili Zhang (IHEP)

15:45 **break 27'**

16:12 **Global analysis on Higgs BR measurement 27'**

Speaker: Dr. Gang Li (EPD.IHEP) (高能所)

16:39 **Higgs to bb, cc, gg measurement 27'**

Speaker: Yu Bai (Southeast University)

17:06 **Higgs to ZZ measurement at the CEPC 27'**

Speaker: Ryuta Kiuchi

17:33 **Higgs to di muon measurement at the CEPC 27'**

Speaker: RAN Kunlin

18:00 - 19:00 Dinner

Location: NO.2 Building (1st floor-春台庆禧厅)

Thursday, April 15, 2021

08:30 - 12:00 Detector and Software - Session II

Conveners: Prof. Huaqiao ZHANG (IHEP), Haijun Yang (Shanghai Jiao Tong University)

Location: No.3 Building (1st floor, VIP Meeting Room 2(贵宾室2))

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Progress and planning of ECAL R&D 30'

Speaker: Dr. Yunlong Zhang (University of Science and Technology of China)

09:00 **Progress of the crystal ECAL 30'**

Speaker: Dr. Yong Liu (Institute of High Energy Physics)

09:30 **Reconstruction algorithm for ECAL 30'**

Speaker: Dr. Sheng-Sen Sun (Institute of High Energy Physics)

10:00 **break 30'**

10:30 **Progress of the CEPC AHCAL 30'**

Speaker: 禹坤 石 (中国科学技术大学)

11:00 **Progress of the CEPC SDCAL 30'**

Speaker: Qiu-Ping Shen (Shanghai Jiao Tong University)

11:30 **The CEPC muon detector 30'**

Speaker: Dr. Xiaolong Wang (Institute of Modern Physics, Fudan University)

08:30 - 12:00

BSM

Conveners: Dr. 庄霄爱 ZHUANG Xuai (高能所), Dr. Lei Wu (Nanjing Normal University)

Location: No.3 Building (1st floor, VIP Meeting Room 1(贵宾室1))

08:30 **Slepton and Gaugino Search at CEPC 20'**

Speaker: Dr. 庄霄爱 ZHUANG Xuai (高能所)

08:50 **Probing bino NLSP at lepton collider 20'**

Speaker: Chengcheng Han (Kavli IPMU)

09:10 **GAMBIT SUSY Global Fit 20'**

Speaker: 阳 张 (Monash University)

09:30 **SUSY and DM search at the CEPC 20'**

Speaker: Waqas Ahmed

09:50 **Photon-jet events as a probe of Axion-Like Particles 20'**

Speaker: Daohan Wang

10:10 **break 25'**

10:35 **EWPT with exotic Higgs decay 25'**

Speaker: Michael Ramesy-Musolf

11:00 **LLP search at the CEPC 20'**

Speaker: Dr. Yulei Zhang

11:20 **Asymmetric DM by displaced lepton jet 20'**

Speaker: Mengchao Zhang

11:40 **New physics with off Z-pole Two Fermion Production at CEPC 20'**

Speaker: Jia Zhou

12:00 - 13:30

Lunch(90') (NO.2 Building (1st floor-春台庆禧厅))

13:30 - 18:00

Flavor Physics

Conveners: 一鸣 李 (高能所), Prof. Chengping Shen (Fudan University)

Location: No.3 Building (1st floor, VIP Meeting Room 1(贵宾室1))

13:30 **Lepton portal DM, Gravitational wave and colliders 30'**

Speaker: Prof. Jia LIU

14:00 **Heavy Neutrino Search in Lepton-rich Higgs boson rare decays 30'**

Speaker: Dr. Yu Gao

14:30 **Flavor Physics at the CEPC 30'**

Speaker: Lorenzo Calibbi

15:00 **TBD 30'**

Speaker: Marek Karliner (Tel Aviv University)

15:30 **break 30'**

16:00 **LFU tests and other flavor physics opportunities at CEPC 30'**

Speaker: Lingfeng Li (HKUST)

16:30 **π^0 reconstruction and physics measurement of $B^0/B_s \rightarrow 2 \pi^0$ final states 30'**

Speaker: Yuexin Wang

17:00 **physics analysis of $B_s \rightarrow \Phi + \nu \bar{\nu}$ at the CEPC 30'**

Speaker: WANG Yudong

17:30 **CP measurement with $B_s \rightarrow J/\psi \Phi$ process at the CEPC 30'**

Speaker: Mingrui Zhao (China Institute of Atomic Energy)

- 13:30 - 18:00 **Detector and Software - Session III**
 Conveners: Dr. Kai Yi (university of iowa), Dr. Linghui Wu (IHEP)
 Location: No.3 Building (1st floor, VIP Meeting Room 2(贵宾室2))
- 13:30 **Progress and planning of the TPC 30'**
 Speaker: Dr. Huirong Qi (Institute of High Energy Physics, CAS)
- 14:00 **Front end ASIC and readout electronics for TPC 30'**
 Speaker: Dr. 智 邓 (清华大学)
- 14:30 **Charge particle ID 30'**
 Speaker: Dr. Mingyi Dong (IHEP)
- 15:00 **Drift chamber dN/dX simulation and reconstruction 30'**
 Speaker: ZHAO Guang (高能所)
- 15:30 **break 30'**
- 16:00 **Tracking software for the Drift Chamber 30'**
 Speaker: Ms. Yao Zhang (Institute of high energy physics, Beijing China)
- 16:30 **Simulation of PID with cluster counting technique 30'**
 Speaker: Federica Cuna (INFN-Lecce)
- 17:00 **Physics impact of the PID 30'**
 Speaker: Shanzhen Chen (IHEP, CAS)
- 17:30 **Optimization of the tracking system 30'**
 Speaker: Xin Shi (IHEP)
- 18:00 - 19:30 **Banquet**
 Location: NO.2 Building (1st floor-春台庆禧厅)

Friday, April 16, 2021

- 08:30 - 12:00 **Detector and Software - Session IV**
 Conveners: 佩莲 刘 (IHEP), Dr. Hongbo ZHU (IHEP)
 Location: No.3 Building (1st floor, VIP Meeting Room 2(贵宾室2))
- 08:30 **Progress and planning of MDI (20'+10') 30'**
 Speaker: Dr. Hongbo ZHU (IHEP)
- 09:00 **Status of beam background study (20'+10') 30'**
 Speaker: Dr. Haoyu SHI (IHEP)
- 09:30 **Beam pipe, overall mechanics and integration (20'+10') 30'**
 Speaker: JI Quan
- 10:00 **break (30') 30'**
- 10:30 **Status and plan of the LumiCal (20'+10') 30'**
 Speaker: Suen Hou (IPAS)
- 11:00 **Solenoid magnet (20'+10') 30'**
 Speaker: Dr. Feipeng NING (IHEP)
- 11:30 **Beam energy measurement (20'+10') 30'**
 Speaker: HUANG Yongsheng
- 08:30 - 12:00 **EW + QCD**
 Conveners: Prof. LIANG Zhijun, 数(Shu) 李(Li) (TDLI, SJTU)
 Location: No.3 Building (1st floor, VIP Meeting Room 1(贵宾室1))
- 08:30 **EW measurement at the CEPC 20'**
 Speaker: Prof. LIANG Zhijun
- 08:50 **Invited talk from Snowmass EW 20'**
 Speaker: Prof. Ayres Freitas
- 09:10 **NNLO EW Correction 20'**
 Speaker: Zhao LI Zhao (IHEP-CAS)
- 09:30 **Weak mixing angle measurement at the CEPC Z pole runs 20'**
 Speaker: Siqi Yang
- 09:50 **An unambiguous test of positivity at lepton collider 20'**
 Speaker: Jiayin Gu
- 10:10 **break 30'**
- Loading [MathJax]/extensions/tex2jax.js **scale partial composite Neutrinos and CEPC tests 20'**
 Speaker: Dr. Zhen Liu (FNAL)

- 11:00 **Z mass measurement at the CEPC Z pole run 20'**
Speaker: Shudong Wang
- 11:20 **Lepton universality at Z pole 20'**
Speaker: Dr. Bo LIU
- 11:40 **Exclusive Z Decays 20'**
Speaker: Dr. Shan Cheng (Hunan University)
- 12:00 - 13:30 Lunch(90') (NO.2 Buidling (1st floor-春台庆禧厅))
- 13:30 - 17:30 **Detector and Software - Session V**
Conveners: Dr. Weidong Li (高能所), Prof. Xingtao Huang (Shandong University)
Location: No.3 Building (1st floor, VIP Meeting Room 2(贵宾室2))
- 13:30 **The status of CEPCSW software framework (20'+10') 30'**
Speaker: Dr. Jiaheng Zou (高能所)
- 14:00 **The simulation software for the CEPC experiment (20'+10') 30'**
Speaker: Dr. Tao LIN (高能所)
- 14:30 **Automated validation system for CEPC (20'+10') 30'**
Speaker: 腾李 (Shandong University)
- 15:00 **Jet tagging algorithm (20'+10') 30'**
Speaker: Dr. Gang Li (EPD.IHEP) (高能所)
- 15:30 **break (30') 30'**
- 16:00 **Status of ACTS integration to CEPCSW (20'+10') 30'**
Speaker: 晋张 (software)
- 16:30 **Data Management with Rucio and Xcache (20'+10') 30'**
Speaker: Dr. 晓梅张 (高能所)
- 17:00 **Integration of Pandora to CEPCSW (20'+10') 30'**
Speaker: 文兴方 (高能所)
- 13:30 - 18:00 **QCD + Higgs etc.**
Conveners: Dr. HuaXing Zhu (Zhejiang University), Prof. Haifeng LI
Location: No.3 Building (1st floor, VIP Meeting Room 1(贵宾室1))
- 13:30 **Jets Meet CFT at the CEPC 30'**
Speaker: Dr. HuaXing Zhu (Zhejiang University)
- 14:00 **ReneSANCe event generator for precision e^+e^- physics 30'**
Speaker: Dr. Renat Sadykov (Joint Institute for Nuclear Research)
- 14:30 **Exclusive description on the hadronic decays of the Higgs boson 30'**
Speaker: Jun Gao (Shanghai Jiao Tong University)
- 15:00 **Application of Quantum Computing at Higgs measurement 30'**
Speaker: ABDUALAZEM FADOL MOHAMMED EBRHIM (高能所)
- 15:30 **break 30'**
- 16:00 **Physics requirement for the c-tagging and VTX reconstruction analysis 30'**
Speaker: 朱永峰
- 16:30 **Triple Higgs couplings and machine learning 30'**
Speaker: 木拉提/武/杨
- 17:00 **Higgs CP via Higgs to ZZ final state 30'**
Speaker: Ke Li
- 17:30 **Higgs CP via Higgs to bb final state 30'**
Speaker: 沙其雨
- 13:30 - 18:00 **Young Scientist Forum**
Conveners: Jin Wang (IHEP), Weimin Song (Jilin University)
Location: No.3 Building (1st floor, Meeting Room 1(会议室1))
- 13:30 **Optimization of silicon pixel vertex detector 15'**
Speaker: Hao Zeng (IHEP)
- 13:45 **R/Z optimization for the Tracker 15'**
Speaker: Hao Liang
- 14:00 **Study of the HV-CMOS pixel detector 15'**
Speaker: 刘帅毅

Speaker: 之洋 原 (高能物理研究所)

14:30 **Simulation study of CDR drift chamber 15'**

Speaker: Mr. shuiting Xin

14:45 **CEPC timing detector R&D 15'**

Speaker: 樊云云

15:00 **Status of R&D of the Fast Timing Detector 15'**

Speaker: Ms. Lishuang Ma

15:15 **Detector Requirement analysis on the Pi-kaon separation 15'**

Speaker: 之洋 原 (高能物理研究所)

15:30 **Break 30'**

16:00 **Single Photon/pi-0 at Full Sim 15'**

Speaker: 逾之 车 (高能所)

16:15 **Status of scintillator batch test for AHCAL 15'**

Speaker: Dr. Yanyun Duan (TDLI/SJTU)

16:30 **Status of GRPC, gas flow simulation and active cooling R&D 15'**

Speaker: Francois Lagarde (SJTU)

16:45 **Time resolution study for muon detector 15'**

Speaker: 鸿玉 张 (F)

17:00 **H->mu mu/gamma gamma at New concept 15'**

Speaker: 丹熠 张 (University of Chinese Academy of Sciences)

17:15 **ATLAS H->mumu results and its impact on CEPC h->mumu 15'**

Speaker: 洁 张 (Shandong University)

17:30 **Tau reconstruction with TAURUS algorithm at the CEPC 15'**

Speaker: 孔楚屹

17:45 **Jet Charge Reconstruction using leading charged particle, b/c 15'**

Speaker: CUI Hanhua

18:00 - 19:00 Dinner (NO.2 Building (1st floor-春台庆禧厅))

Saturday, April 17, 2021

09:00 - 11:40 Plenary II

Convener: Prof. Yaquan FANG Yaquan (高能所)

Location: No.3 Building (1st floor, Terrace Meeting Room(阶梯教室))

09:00 **White paper planning and discussion 1h0'**

Speaker: RUAN Manqi

10:00 **break 30'**

10:30 **Detector paper planning and discussion 1h0'**

Speaker: Jianchun Wang (IHEP)

11:30 **Closing 10'**

Speaker: Prof. Yaquan FANG Yaquan (高能所)

11:40 **Adjourn**

11:40 - 12:40 Lunch

Location: NO.2 Building (1st floor-春台庆禧厅)