

扬州风光

CEPC Physics and Detector Plenary meeting March 24, 2021

Accodring to the local COVID-19 prevention regulations, please pay attention that Sukang Code(苏康码绿 码) is needed when you arrive in Yangzhou. You can search Sufuban(苏服办) in We Chat and fill in the application in advance.

Goal of the workshop

- Further understand the **physics potential** at CEPC as well as the **requirements for the detector**:
 - CEPC physics white paper
 - Innovative detector design for CEPC



the location of the workshop

With the help of physics department of Yangzhou University :

- 地点: Yangzhou conference center (扬州会议中 心)
 - 7 kilometer to downtown (文昌阁)
 - 5.8 kilometer to 瘦西湖
 - 6.2 kilometer to 平山堂
- 时间: April 14-17
 - For April 17th, we have only the morning section.
 - Registration starts from the afternoon of April 13th.

• 规模:~150 in person, no more than 200



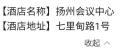


值得一去的酒店——扬州会议中心

酒店可容纳近千人的大型宴会厅,是扬州市容 纳人数最多,功能配套最全的大型会议酒店

【酒店信息】 立置交通:酒店离火车站不到十分钟车程,离

福山國大中和中國中分前中位,同省
商业购物中心京华城很近
酒店环境:环境不错,这边空气好,风景好,
楼很高,看上去很气派
酒店设施:酒店设施很高档,送的指甲钳很
好,卫生间、淋浴间及衣柜很大
美味餐饮:酒店的自助早餐很不错,品种丰富





13 remotely attend, 15 partially participate so far

Participant List

Number of participants: 160

Iname	institution
CHEN, Yebo	高能所
BAI, Yu	Southeast University
BARREIRO GUIMARAES DA COSTA, Joao Pedro	IHEP
BONDARENKO, Serge	Joint Institute for Nuclear Research
CALIBBI, Lorenzo	Nankai University
CHEN , Shanhong	IHEP
CHENG, Shan	Hunan University
CHEN, Guoming	高能所
CHEN, Mingshui	IHEP
CHEN, Shanzhen	IHEP
CUI, Hanhua	IHEP
DONG, Mingyi	IHEP



SPC & LOC members and poster

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	UUN	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

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		

Hope to have 1st SPC meeting next week to discuss the agenda of the workshop



tentative agenda

28 detector talks so far

41 physics talks

	Session I, April 14, Wednesday					
	Progress and planning of the Vertex detector (20'+10')	Zhijun Liang	Higgs (12 talks) – Afternoon sess	tions of Anril 144		
	Progress of the TaichuPix chip (20'+10')	Wei Wei	= 21	•	Cl. Dl	· · · · · · · · · · · · · · · · · · ·
	Progress of the JadePix chip (20'+10')	Yunpeng Lu		1	Flavor Physics (11 talks): Afternoor	n sessions of April 15th. 4
	Wireless readout and control (20'+10')	Xiaoshan Jiang		-	u Calibbi	
15:30			Yiwei wang (王毅伟):	beam parameters at one troat runs.		Flavor Physics at the CEPC4 Whatever Flavor Physics…4
	Progress and planning of the Silicon Tracker (20'+10')	Harald Fox	Kaili Zhang (张凯栗):			
	HV-CMOS sensor design and test (20'+10')	Yanyan Gao	_ Xiaohu Sun (孙小虎):			TBD∉ TBD∉
17:00	Tracking for Silicon Tracker at CEPC (20'+10')	Chengdong Fu	Shufang Su (苏淑芳):			IBD← pi-0 reconstruction and physics measurement of B0/Bs->2 pi0 final states←
<u> </u>			Gang Li (李刚):			
	Session II, April 15, Thursday					physics analysis of Bs->Phi + yy, at the CEPC+i
8:30	Status and planning of ECAL R&D (20'+10')	Yong Liu	Abdualazem Fadol:	Application of Quantum Computing at Higgs measurem		
9:00	Progress of the crystal ECAL (20'+10')	TBD	(lingrui Zhao (赵明锐):	CP measurement with Bs -> J/psi Phi process at the CEPC4 $\!\!\!$
	Reconstruction algorithm for ECAL (20'+10')	Shengsen Sun	<u> </u>	Higgs to ZZ measurement at the CEPC;↔	e Devent Collectore I	Designation and the second states of the second states
10:00			Kunlin Ran (冉坤林):			ReneSANCe event generator for precision e ⁺ +e ⁻ physics ²
	Progress of the CEPC AHCAL (20'+10')	Yukun Shi	— Yu Bai (白羽) :	Higgs to bb, cc, gg measurement.↔	un gao(高俊):	A new generator for the Higgs hadronization at the CEPC (tentative) $^{\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!$
	Progress of the CEPC SDCAL (20'+10')	Qiuping Shen	— Yufeng Zhu (朱永峰):	Physics requirement for the c-tagging and VTX reconstruction and	Sigi Yang (杨思奇):	Weak mixing angle measurement at the CEPC Z pole runs; (EM talk due to speakers' time constrain)←
11:30	The CEPC muon detector (20'+10')	Xiaolong Wang	Ke Li (李柯):	Higgs CP via Higgs to ZZ final state;↔	yuu rang (烟心可):	weak mixing angle measurement at the CEPC 2 pole runs; (EM talk due to speakers' time constrain)*
<u> </u>			Qivu Sha(沙其雨):	Higgs CP via Higgs to bb final state		
	Session III, April 15, Thursday		Site Sha(19 Sens).	inggs of via inggs to bb inial state	с Ц	
	Charge particle ID (20'+10')	Mingyi Dong	_ `		· 년	
	Drift chamber dN/dX simulation and reconstruction (20'+10')	Guang Zhao	BSM (11 talks): Morning sessions of April 1	L5 th . ↔	4	
	Tracking software for the Drift Chamber (20'+10')	Yao Zhang	4			the state of the s
	Physics impact of the PID (20'+10')	Shanzhen Chen	← Chengcheng Han (韩成成):	Probing bino NLSP at lepton collider↔	EW + QCD, etc. (7 talks): Mornir	ng sessions of April 16 th e
15:30		lub increa Oi		Yulei Zhang (张宇雷): EWPT with exotic Higgs decay	↔	
	Progress and planning of the TPC (20'+10')	Huirong Qi	Yu Gao (高宇):	Heavy Neutrino Search in Lepton-rich Higgs boson rare dec	c ^{ay} Zhijun Liang (梁志均):	EW measurement at the CEPC↔
	Front end ASIC and readout electronics for TPC (20'+10')	Zhi Deng Xin Shi	— Peiwen Wu (吴培文):	top quark FCNC and measurement with top + jet + MET final	L Linjun Liang (来心闷)。	
	Optimization of the tracking system (20'+10')		—state for DM↔		Zhao Li (李钊):	NNLO EW Correction
17:30	Plan of the TDAQ (20'+10')	Zhenan Liu	—Jia Liu(刘佳):	Lepton portal DM, Gravitational waves and collider 🗠	Invited talk from Snowmass EV	V. TDD2
<u> </u>	Session IV, April 16, Friday					
8:30	Progress and planning of MDI (20'+10')	Hongbo Zhu	Xuai Zhuang (庄胥爱):	Slepton and Gaugino Search at CEPC4 GAMBIT: SUSY Global Fite4	Jiavin Gu (顾嘉荫):	SMEFT for the global interpretation of precision Higgs & EW measurement at the CEPC
	Status of beam background study (20+10)	Haoyu Shi	_Yang Zhang (张阳), Peter Athron: Wagas Ahmed:	GAMBIT: SUSY Global Fit↔ SUSY and DM search at the CEPC↔	Huaxing Zhu (朱华星)::	lets Meet CFT at the CEPC↔
	Beam pipe, overall mechanics and integration (20'+10')	Quan Ji	waqas Anmed: Mengchao Zhang (张孟超):	SUSY and DM search at the CEPC [⊕] Asymmetric DM by displaced lepton jet [⊕]		
10:00		Totudi i Ji	王道函/武/杨/张:	Photon-jet events as a probe of Axion-Like Particle	ese Shudong Wang (王书栋):	Z mass measurement at the CEPC Z pole run ϵ^{μ}
	Status and plan of the LumiCal (20'+10')	Suen Hou	木拉提/武/杨:	Triple Higgs couplings and machine learning∉	Zhen Liu (刘真):	TBD∉
	Solenoid magnet (20'+10')	Feipeng Ning	~ ~		mon mu (Adad)	100
	Beam energy measurement (20'+10')	Yongsheng Huang			4	
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Session V, April 16, Friday				
13:30	The status of CEPCSW software framework (20'+10')	Jiaheng Zou		
14:00	The simulation software for the CEPC experiment (20'+10')	Tao Lin		
14:30	Automated validation system for CEPC (20'+10')	Teng Li		
15:00	Jet tagging algorithm (20'+10')	Gang Li		
15:30	break (30')			
	Integration of Pandora to CEPCSW (20'+10')	Wenxing Fang		
16:30	ArborPFA and Lepton ID in the CEPCSW (20'+10')	Dan Yu		
17:00	Status of ACTS integration to CEPCSW (20'+10')	Jin Zhang		
17:30	Data Management with Rucio and Xcache (20'+10')	Xiaomei Zhang		

 \checkmark The morning of 14th and morning of 17th are plenary sections.

- ✓ Afternoon of 14th,15th, 16th are parallel sections: detector, physics
 - ✓ Still slots available for EW and QCD in physics sections
- \checkmark There is one dedicated Youth section (Afternoon of 16th for students.)
 - ✓ Still some slots available.

Look forward to meeting you at Yangzhou



扬州早茶 (白天皮包水)

^{W123456} 扬州市历史建筑

苏唱街扬州浴室

于 1928 年由上海人袁炳南建造,用罗马柱装饰店面,属 于扬州近代"洋气"建筑的典型,其内部布局显示了扬州沐浴 文化特色,也是扬州百年老字号之一。

Yangzhou Bathhouse in Suchang Alley

The bathhouse was constructed in 1928 by Yuan Bingnan, a man from Shanghai. The shop's elevation is decorated with Roman style columns, which is typical of Western style architecture in Yangzhou in early 20th century. The interior layout of the building reflects the characteristics of bathing culture in Yangzhou. The bathhouse is also one of the old-brand ones in Yangzhou.







