



Circular Electron Positron Collider

CEPC-SPPC Symposium

<http://indico.ihep.ac.cn/event/5277/>

April 8-9, 2016

Main Building A214, IHEP, Beijing

Time	Title	Speaker
April 8, 2016		
08:00 – 08:30	Registration @ Main Building A214	
08:30 – 10:10	Plenary Session I – Overview (Chair: Kuang-Ta Chao)	
08:30 – 08:40	Introduction talk from CEPC SC	Yifang Wang
08:40 – 09:10	CEPC Status	Xinchou Lou
09:10 – 09:40	CEPC Accelerator Status after Pre-CDR	Jie Gao
09:40 – 10:10	The physics goals of CEPC	Liantao Wang
10:10 – 10:40	Photo Session and Coffee Break	
10:40 – 12:00	Parallel Session I	
10:40 – 12:00	Theory Group (A419) Accelerator: CEPC (A415) Accelerator: SPPC (A511) Physics /Detector Group (C305)	
12:00 – 14:00	Lunch @ IHEP Expert Restaurant Institutional Board Meeting (box lunch) A623	

14:00 – 15:30	Parallel Sessions II	
14:00 – 15:30	Theory Group (419) Accelerator: CEPC (A415) Accelerator: SPPC (A511) Physics/Detector Group (C305)	
15:30 – 16:00	Coffee Break	
16:00-18:00	Parallel Sessions III	
16:00 – 18:00	Theory Group (A419) Accelerator: CEPC (A415) Accelerator: SPPC (A511) Physics /Detector Group(C305)	
18:00	Adjourn (No meeting dinner)	

Time	Title	Speaker
April 9, 2016		
09:00 – 10:10	Parallel Session IV	
09:00 – 10:10	Theory Group (C305) Accelerator: CEPC (A415) Accelerator: SPPC (A511) Physics/Detector Group (C305)	
10:10 – 10:40	Coffee Break	
10:40 – 12:00	Parallel Session V	
10:50 – 12:00	Theory Group (C305)	

	Accelerator: CEPC (A415) Accelerator: SPPC (A511) Physics/Detector Group (C305)	
12:00 – 14:00	Lunch @ IHEP Expert Restaurant Steering Committee Meeting (box lunch) A623	
14:00 – 15:30	Plenary Sessions II – Summary (Chair: Xiaogang He)	
14:00 – 14:30	Summary of Theory Group	Hongjian He
14:30– 14:55	Summary of Accelerator Group (CEPC)	Weiren Chou
14:55 – 15:10	Summary of Accelerator Group (SppC)	Jingyu Tang
15:10-15:40	Summary of Physics/Detector	Yuanning Gao
15:40-16:10	Coffee Break	
16:10 – 17:00	Plenary Sessions III – Summary (Chair: Nu Xu)	
16:10 – 16:20	IB Announcement	IB Chair
16:20 – 17:00	Discussion for the next steps	Xinchou Lou
17:00	End of the meeting	

The registration page is at URL: <http://indico.ihep.ac.cn/event/5277/>

CEPC Accelerator parallel session agenda

Time	Title	Speaker
April 8, 2016, meeting room A415		
10:40 – 12:00 Parallel Session I – CEPC, Chair:Qing Qin, J. Gao, Weiren Chou		
10:40 – 10:55	CEPC parameter choice and partial double ring design	Dou Wang
10:55 – 11:10	Beam-beam effect of CEPC crab-waist scheme and nonlinear effect issues	Yuan Zhang
11:10 – 11:25	CEPCpartial double ring scheme DA studies	Yiwei Wang
11:25 – 11:40	CEPC partial double ring lattice design and DA study	Feng Su
11:40-11:55	CEPC wiggling magnet scheme design progress (field)	Tianjian Bian
12:00 – 14:00 Lunch @ IHEP Expert Restaurant		
IB Meeting @ A623 (lunch box)		
14:00 – 16:00 Parallel Session II –CEPC, Chair:Qing Qin, J. Gao, Weiren Chou		
14:00 – 14:15	CEPC Pretzel scheme lattice design status	Huiping Geng
14:15-14:30	CEPC partial double ring magnet error effects	Sha Bai
14:30 – 14:45	CEPC MDI issues for both single and partial double ring schemes	Sha Bai
14:45-15:00	CEPC SRF system design for partial double ring scheme	Jiyuan Zhai
15:00-15:15	CEPC 1.3GHz and 650Mhz high Q Nitrogen dopping R&D progress	Peng Sha
15:15-15:30	CEPC 650MHz 5cell SC cavity design	Hongjuan Zheng

15:30 – 16:00	Coffee Break	
16:00-18:00	Parallel Sessions III-CEPC, Chair:Qing Qin, J. Gao, Weiren Chou	
16:00 – 16:15	CEPC SRF considerations on input couplers	Zhenchao Liu
16:15-16:30	CEPC injector beam dynamics	Cai Meng
16:30-16:45	CEPC positron source design and R&D	Xiaoping Li
16:45-17:00	CEPC injector high field S-band accelerating structure design and R&D	Jingru Zhang
17:00-17:15	CEPC cryogenic system for partial double ring	Shaopeng Li
17:15-17:30	CEPC 650Mhz high power high efficiency rf source design and R&D	Zusheng Zhou
17:30-17:45	CEPC booster design progress (low field)	Xiaohao Cui/C. Zhang
17:45-18:00	Some design considerations of CEPC B dipole magnet	Wen Kang
18:00	Adjourn (No meeting dinner)	
Time	Title	Speaker
April 9, 2016, meeting room A415		
09:00 – 10:10	Parallel Session IV-CEPC, Chair:Qing Qin, J. Gao, Weiren Chou	
09:00 – 09:15	CEPC SC Q magnets design	Yingshun Zhu
09:30 – 09:45	CEPC instrumentation R&D	Yanfeng Sui
10:00 – 10:15	CEPC partial double ring collective effects	Na Wang
10:10 – 10:40	Coffee Break	
10:40 – 12:00	Parallel Session V-CEPC, Chair:Qing Qin, J. Gao, Weiren Chou	
10:40 – 10:55	On circular gamma-gamma collider issues	Dazhang Li

10:55-11:10	Discussion on the CDR Issues and additional talks	
11:10-11:25		
11:25-11:40		
11:40-11:55		
12:00 – 14:00	Lunch @ IHEP Expert Restaurant SC Meeting @ A623 (lunch box)	

CEPC Physics /Detector Group parallel session agenda

Time	Title	Speaker
April 8, 2016, meeting room C305		
10:40 – 12:00	Parallel Session I – Physics /Detector Group Chair: Nu Xu (CCNU), Yuanning Gao (THU), Shan Jin (IHEP)	
10:40 – 11:10	Progress of MDI	Qinglei Xiu (IHEP)
11:10 – 11:40	Status of Silicon	Yunpeng Lu (IHEP)
11:40 – 12:10	Status of TPC	Huirong Qi (IHEP)
12:00 – 14:00	Lunch @ IHEP Expert Restaurant IB Meeting @ A623 (lunch box)	
14:00 – 16:00	Parallel Session II - Physics /Detector Group	
14:00 – 14:30	Status of ECAL	Zhigang Wang (IHEP)
14:30 – 15:00	Status of HCAL	Hongbang Liu (UCAS & Guangxi University)
15:00 – 15:30	Status of Magnet	Ling Zhao (IHEP)
15:30 – 16:00	Coffee Break	
16:00-18:00	Parallel Sessions III- Physics /Detector Group	
16:00 – 16:30	Higgs Physics	Gang Li (IHEP)
16:30 – 16:55	Z and W Physics	Zhijun Liang (IHEP)
16:55 – 17:30	Reconstruction and Detector Simulation	Manqi Ruan (IHEP)
17:30 – 17:45	BR of Higgs decays to bb, cc, gg	Yu Bai (Southeast U)

17:45 – 18:00	Higgs Width Measurement at CEPC	Yuqian Wei (IHEP)
18:00	Adjourn (No meeting dinner)	
Time	Title	Speaker
April 9, 2016, meeting room C305		
09:00 – 10:10	Parallel Session IV-Joint between Theory and Detector Groups	
09:00 –09:25	A roadmap to reconstruct the Higgs potential at e+e- and pp colliders	Qi-Shu Yan (UCAS)
09:25 –09:50	Interaction between Theory-Phenomenology & Detector Simulation Studies	Manqi Ruan (IHEP)
09:50 – 10:10	Discussions	
10:10 – 10:40	Coffee Break	
10:40 – 12:00	Parallel Session V- Physics and Detector Group	
10:40 – 12:00	Discussion of international collaboration and future R&D plans towards CEPC CDR	
12:00 – 14:00	Lunch @ IHEP Expert Restaurant SC Meeting @ A623 (lunch box)	

CEPC Theory Group parallel session agenda

Time	Title	Speaker
April 8, 2016, meeting room A419		
10:40 – 12:00 Parallel Session I , Theory Group, Chair: Wei Liao		
10:40 – 11:05	B Physics Anomalies and High Energy Collider	Ying Li
11:05 – 11:30	Understanding the quarkonium production mechanism from polarization measurements	Yan-Qing Ma,
11:30 – 11:55	Interference effects on Higgs mass measurement at CEPC	Yu-Jie Zhang
12:00 – 14:00 Lunch @ IHEP Expert Restaurant		
IB Meeting @ A623 (lunch box)		
14:00 – 16:00 Parallel Session II , Theory Group, Chair: Pei-Hong Gu		
14:00 – 14:25	Probing New Physics Scales at CEPC	Shao-Feng Ge
14:25 – 14:50	Probing the nature of electroweak phase transition from CEPC to gravitational waves detectors	Fa-Peng Huang
14:50 – 15:15	Searching for dark matter at future e+e- and pp colliders	Peng-Fei Yin
15:15 – 15:40	Searching exotic decay channels of the SM Higgs boson at CEPC	Hao Zhang
15:40 – 16:00 Coffee Break		
16:00-18:00 Parallel Sessions III, Theory Group, Chair: Kai Wang		
<u>16:00 – 16:25</u>	Phenomenology of the Georgi-Machacek model at future electron-positron colliders	Cheng-Wei Chiang
16:25 – 16:50	Constraining Natural Supersymmetry at the HL-LHC, ILC and CEPC	Tian-Jun Li,

16:50 – 17:15	Probing new physics inside Loops at electron-positron colliders	Qing-Hong Cao,
17:15 – 17:40	The effective operator analysis of CEPC and CEPC 400	Jing Shu,
18:00	Adjourn (No meeting dinner)	
Time	Title	Speaker
April 9, 2016		
09:00 – 10:10	Parallel Session IV, Joint between Theory and Detector Groups, meeting room C305, Chair: Zong-Guo Si	
09:00 – 09:25	A roadmap to reconstruct the Higgs potential at e ⁺ e ⁻ and pp colliders	Qi-Shu Yan,
09:25 – 09:50	Interaction between Theory-Phenomenology & Detector Simulation studies	Man-Qi Ruan
09:50 – 10:10	Discussions	
10:10 – 10:40	Coffee Break	
10:40 – 12:00	Parallel session V, Theory Group, meeting room A419, Chair: Shu-Fang Su	
10:40-12:00	Discussions,	
12:00 – 14:00	Lunch @ IHEP Expert Restaurant SC Meeting @ A623 (lunch box)	

SPPC parallel session agenda

Time	Title	Speaker
April 8, 2016, meeting room A511		
10:40 – 12:00		
Parallel Session I, Chair: Yuanrong Lu		
10:40 – 11:00	SPPC General Progress	Jingyu Tang
11:00 – 11:20	LATTICE Design – 1	Feng Su
11:20 – 11:40	LATTICE Design – 2	Yukai Chen
11:40 – 12:00	Beam Collimation	Ye Zou
12:00 – 14:00		
Lunch @ IHEP Expert Restaurant		
IB Meeting @ A623 (lunch box)		
14:00 – 16:00		
Parallel Session II, Chair: Hongliang Xu		
14:00 – 14:15	Lattice for Collimation	Jianquan Yang
14:15 – 14:35	Collective Instabilities	Yudong Liu
14:35 – 14:50	Longitudinal Dynamics	Yuemei Peng
14:50 – 15:10	Injection and Extraction	Guangrui Li
15:10 – 15:30	Injector Chain General and p-RCS	Jingyu Tang
15:30 – 16:00		
Coffee Break		
16:00-18:00		
Parallel Sessions III, Chair: Jianping Dai		
16:00 – 16:20	Proton Linac and Ion Linac	Yuanrong Lu
16:20 – 16:40	SS Conceptual Design	Xiangqi Wang
16:40 – 17:00	High-field Superconducting Magnets	Qingjin Xu
17:00 – 17:20	Beam Screen	Kun Zhu
17:20 – 17:40	Vacuum	Yong Wang

17:40 – 18:00	Beam Instrumentation and Control	Baogeng Sun
18:00	Adjourn (No meeting dinner)	
Time	Title	Speaker
April 9, 2016, meeting room A511		
09:00 – 10:10	Parallel Session IV, Chair: Baogeng Sun	
09:00 – 09:20	Machine Protection	Hongliang Xu
09:20 – 09:40	RF and Cryogenics	Jianping Dai
09:40 – 10:20	Discussions on key problems and future work	
10:20 – 10:40	Coffee Break	
10:40 – 12:00	Parallel Session V, Chair: Jingyu Tang	
10:40 – 12:00	Discussions on key problems and future work	
12:00 – 14:00	Lunch @ IHEP Expert Restaurant SC Meeting @ A623 (lunch box)	