



International Workshop on The High Energy Circular Electron Positron Collider

Oct. 23 - 27, 2023, Nanjing, China

The workshop intends to study the physics potentials of the CEPC, pursue international collaborations for accelerator and detector optimization, deepen R&D work of critical technologies, and develop initial plans towards Technical Design Reports (TDR).

The high energy Super proton-proton Collider (SppC), a possible upgrade of the CEPC, will also be discussed. Furthermore, industrial partnership for technology R&Ds and industrialization preparation of CEPC-SppC will be explored.

Scientific Program Committee

Franco Bedeschi	INFN/Pisa	Goran Hahn	POSTECH
Nicole Bell	U-Melbourne	Xiaogang He	TDL/SJTU
Maria Enrica Biagini	INFN/Frascati	Sven Heinemeyer	IFT/CSC
Anton Bogomyazkov	BNP	Wentao Huang	THU
Daniela Bortoletto	Oxford	Eric Kufner	CPM
Manuela Boscolo	INFN/LNF	Eiji Koko	KEK
Shihua Bresler	Weizmann	Wendong Li	IHEP
Qinghong Cao	PKU	Jianfei Liu	USTC
Joao Guimaraes da Costa	IHEP	Tao Liu	HKUST
Angelika Faus-Gold	UCLab/Orsay	Zhen Liu	U-Minnesota
Jie Gao	IHEP	Wei Lu	THU
Yanyan Gao	Edinburgh	Bruce Mellado	U-Wisconsin
Paolo Giacomelli	INFN/Bologna	Carlo Pagani	INFN/Milano
Christophe Grojean	DESY		

Local Organizing Committee

Shan Jin (chair)	NUJ	Meng Ruan	IHEP
Yaqian Fang	IHEP	Xiaolong Wang	FDU
Zhen Hu	THU	Yuehong Xie	CCNU
Xingao Huang	SOU	Zhenwei Yang	PKU
Yongqiang Huang	SYTU	Kai Yi	NKNU
Gang Li	IHEP	Chunyu Yu	NKU
Shu Li	TDL/SJTU	Lei Zhang	NUJ
Yuhai Li	IHEP	Hongqiao Zhu	ZJU
Ming Qi	NUJ	Huawang Zhu	ZJU

Secretaries

Sicheng Zhou	Hongjuan Xu	Yaru Wu
--------------	-------------	---------

CEPC 2023

The 2023 International Workshop on The High Energy Circular Electron Positron Collider

2023.10.23-27, Nanjing, China

<https://indico.ihep.ac.cn/event/19316/>

mailto: cepcws2023@ihep.ac.cn

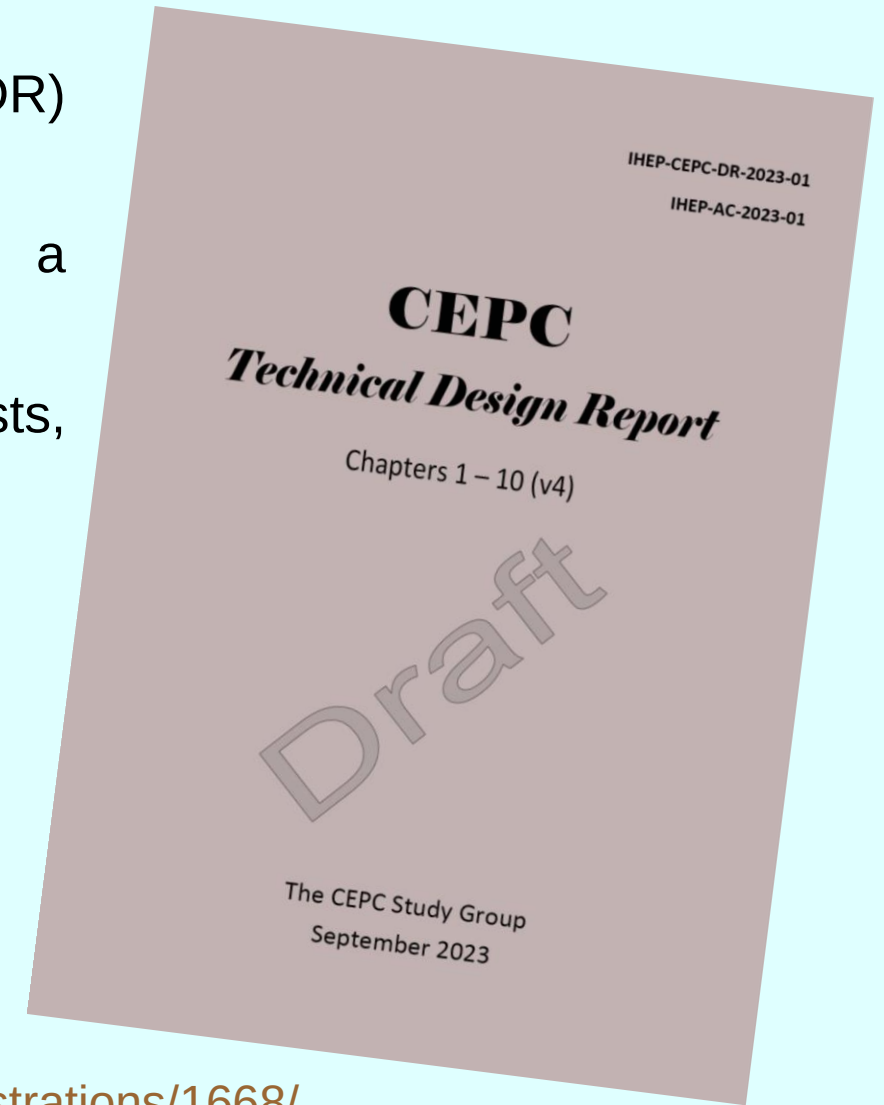
Co-chairs: Shan Jin, Jianchun Wang



<https://indico.ihep.ac.cn/event/19316/>
Contact: cepcws2023@ihep.ac.cn
Tel: +86 18951633979



- ❖ The CEPC Accelerator Technical Design Report (TDR) will be released by **Dec 15, 2023**.
- ❖ You and your group are encouraged to sign as a author(s), if you are interested in CEPC.
- ❖ The author list is not limited to the accelerator scientists, by everyone involved.
- ❖ TDR of a reference detector.
 - Start preparation in **January of 2024**
 - A draft version by **December, 2024**
 - Official release by **June 30, 2025**.
- ❖ Author registration: <http://indico.ihep.ac.cn/event/20817/registrations/1668/>
- ❖ Accelerator TDR: <https://docs.ihep.ac.cn/link/AA9FC882F906714CE1BC59DAF3BB048A60>





- ❖ Registered participants
 - Total: 377
 - From abroad: 76 (20.2%)
 - Online: 77 (20.5%)
- ❖ Total 251 talks, and 35 posters
- ❖ Total 93 abstract submissions, 32 for posters, 61 for talks.

Sessions	Blocks	Items
Plenary	5	14
Accelerator technology	12	56
CIPC	4	18
Application in other fields	3	13
Higgs	2.5	10
EW & tt	2.5	11
Flavor physics	4	12
QCD	2	8
BSM	4	21
MDI & integration	3	14
Silicon detector	3	14
Calorimeter	3	12
Gaseous detector	3	12
PID & other detectors	3	10
Electronics	2	9
TDAQ & Online	2	7
Offline & Software	2	10
Posters	-	35
		286



The 2023 international workshop on the high energy Circular Electron Positron Collider
2023.10.23



高能物理的未来

— 及中国的机遇和挑战

王贻芳

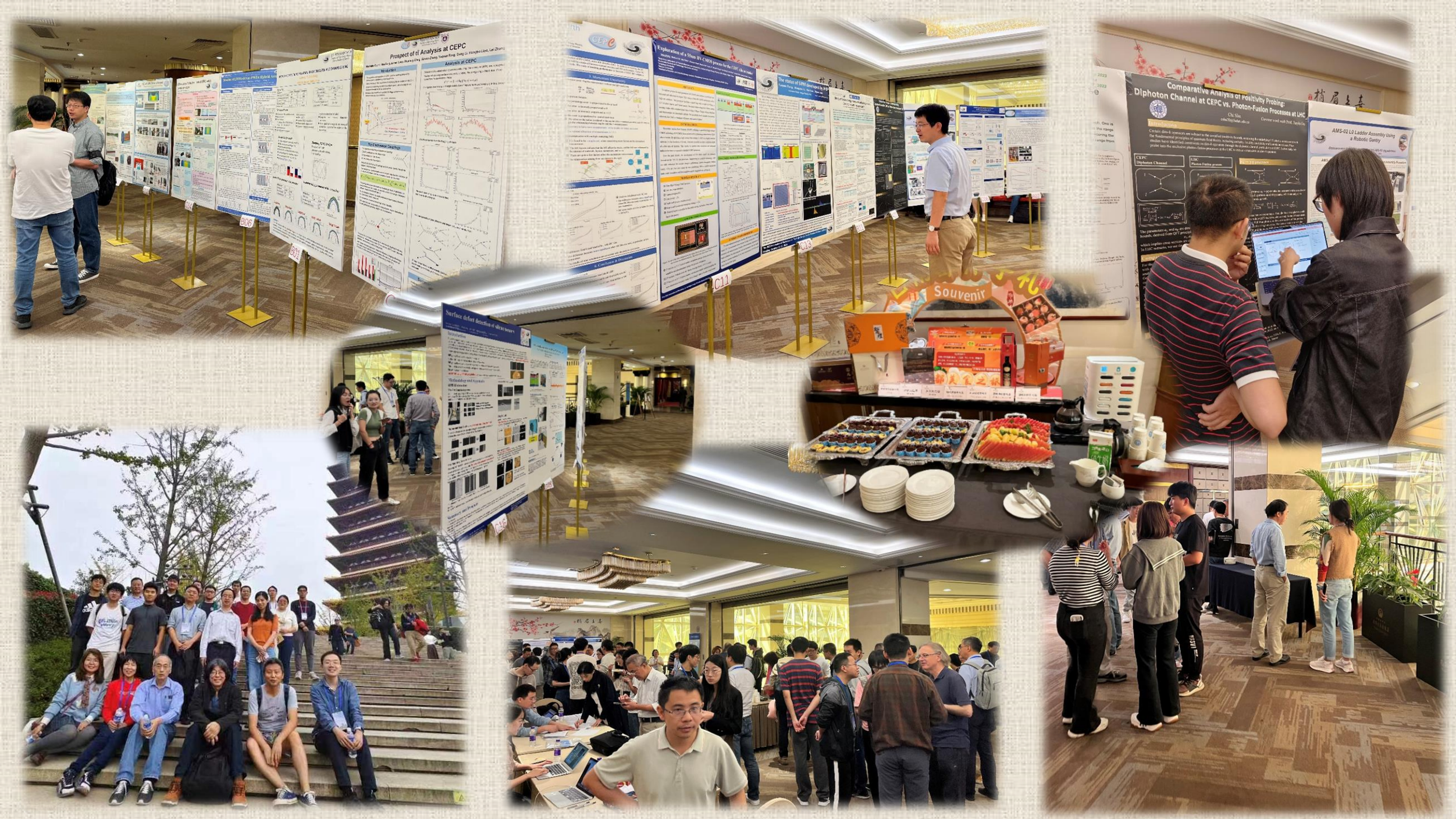
2023

你们中间
中国的科学在你们手里
欢迎参加我们的队伍

南京大学

南京大学

励学敦行





	Monday 23rd	Tuesday 24th	Wednesday 25th	Thursday 26th	Friday 27th
9:00-10:30	Plenary	BSM Si Det Accelerator CIPC	QCD GasDet Accelerator Application	Flavor Calo Accelerator BSM	Higgs PID Accelerator Offline
10:30-11:00	Coffee break	Coffee break	Coffee break	Coffee break	Coffee break
11:00-12:30	Plenary	EW & tt Electr. Accelerator CIPC	Flavor GasDet Accelerator	Flavor Calo Accelerator TDAQ	BSM PID Accelerator MDI
12:30-14:00	Lunch break	Lunch break	Lunch break	Lunch break	Lunch break
14:00-15:30	Higgs Si Det Accelerator CIPC	EW & tt Electr. Accelerator Application	Excursions 13:30 - 17:30	Flavor Calo MDI TDAQ	Plenary
15:30-16:00	Coffee break	Coffee break		Coffee break	Coffee break
16:00-18:00	Higgs/EW/tt Si Det Accelerator CIPC	QCD GasDet Accelerator Application		BSM PID MDI Offline	Plenary
		Banquet 18:30 - 21:00		Public Lecture 19:00 - 21:00	



Domain
chairs
in bold

Accelerator	Maria Enrica Biagini	INFN/Frascati	Theory	Zhen Liu	U.Minnesota
	Anton Bogomyagkov	BINP		Michael Ramsey-Musolf	TDLI, UMass
	Manuela Boscolo	INFN/LNF		Alessandro Vicini	INFN/Milano
	Angeles Faus-Golfe	IJCLab/Orsay		Liantao Wang	U. Chicago
	Jie Gao	IHEP	Exper Physics	Franco Bedeschi	INFN/Pisa
	Garam Hahn	POSTECH		Daniela Bortoletto	Oxford
	Wenhui Huang	THU		Shikma Bressler	Weizmann
	Eiji Kako	KEK		Joao Guimaraes da Costa	IHEP
	Wei Lu	THU		Yanyan Gao	Edinburgh
	Carlo Pagani	INFN/Milano		Paolo Giacomelli	INFN/Bologna
	Maksym Titov	CEA		Eric Kajfasz	CPPM
	Makoto Tobiyama	KEK		Weidong Li	IHEP
	Xueqing Yan	PKU		Jianbei Liu	USTC
	Frank Zimmermann	CERN		Bruce Mellado	U.Wits, iThemba LABS
Theory	Nicole Bell	U. Melbourne		Jianming Qian	U. Michigan
	Qinghong Cao	PKU		Yoshinobu Unno	KEK
	Christophe Grojean	DESY		Meng Wang	SDU
	Xiaogang He	TDLI, SJTU		Haijun Yang	SJTU, TDLI
	Sven Heinemeyer	IFT/CSIC		Jingbo Ye	IHEP
	Tao Liu	HKUST		Hwidong Yoo	Yonsei Univ.



	Sessions		Blk	Conveners
1	Acceler.	Global & beam dynamics	12	Maria Enrica Biagini(INFN/Frascati), Anton Bogomyagkov(BINP), Jie Gao(IHEP), Frank Zimmermann(CERN)
2		Accelerator technology		Angeles Faus-Golfe(IJCLab/Orsay), Garam Hahn(POSTECH), Eiji Kako(KEK), Makoto Tobiyama(KEK), Carlo Pagani(INFN/Milano)
3		Novel acclerator concept		Wenhui Huang(THU), Wei Lu(THU), Maksym Titov(CEA), Xueqing Yan(PKU)
4	CIPC	Technology for CEPC	6	Jie Gao(IHEP), Jinling Gao(Fuhai Cryo), Song Jin (IHEP), Yaru Wu(IHEP)
5		Application in other fields	3	Zhi Deng(THU), Xiancao Huang(IHEP), Yuhui Li (IHEP), Sen Qian(IHEP)
6	Physics	Higgs	2.5	Mingshui Chen(IHEP), Sven Heinemeyer (IFT/CSIC), Shufang Su (Arizona U), Wei Su(SYSU)
7		EW & tt	2.5	Xiaohui Liu(BNU), Giovanni Pelliccioli(MPG), Xiaohu Sun(PKU), Alessandro Vicini (INFN/Milano)
8		Flavor physics	4	Vanya Belyaev(ITEP), Lorenzo Calibbi(NKU), Tao Liu (HKUST), Liantao Wang (U.Chicago), Changzheng Yuan(IHEP)
9		QCD	2	Xuan Chen(ETH, SDU), Jun Gao (SJTU), Zhen Liu (U.Minnesota), Manqi Ruan (IHEP)
10		BSM	3	Christophe Grojean (DESY), Lingfeng Li(Brown U.), Xuai Zhuang(IHEP)
11	Detector +	MDI & integration	3	Sha Bai(IHEP), Manuela Boscolo (INFN/LNF), Quan Ji(IHEP), Hiroyuki Nakayama(KEK), Haoyu Shi(IHEP)
12		Silicon detector	3	Victor Coco (CERN), Yanyan Gao (Edinburgh), Zhijun Liang(IHEP), Klaas Padeken (U. Bonn)
13		Calorimeter	3	Imad Laktineh(IPNL), Jianbei Liu (USTC), Huaqiao Zhang (IHEP)
14		Gaseous detector	3	Shikma Bressler (Weizmann), Huirong Qi(IHEP), Yi Wang (THU)
15		PID & other detectors	3	Mingyi Dong (IHEP), Shohei Nishida (KEK), Ivan Polyakov(CERN), Xiaolong Wang (FDU)
16		Electronics	2	Paulo Moreira (CERN), Wei Wei (IHEP), Jingbo Ye (IHEP),
17		TDAQ & Online	2	Zhenan Liu (IHEP), Matias Bonaventura(CERN), Qidong Zhou(SDU)
18		Offline & Software	2	Xingtao Huang(SDU), Weidong Li (IHEP), Andreas Salzburger(CERN)
19	Posters			Gang Li(IHEP), Shu Li(SJTU), Yiming Li(IHEP), Dou Wang(IHEP), Lei Zhang (NJU), Guang Zhao (IHEP)



Workshop Local Organizing Committee			
Shan Jin (chair)	NJU	Manqi Ruan	IHEP
Yaquan Fang	IHEP	Xiaolong Wang	FDU
Zhen Hu	THU	Yuehong Xie	CCNU
Xingtao Huang	SDU	Zhenwei Yang	PKU
Yongsheng Huang	SYSU	Kai Yi	NJNU
Gang Li	IHEP	Chunxu Yu	NKU
Shu Li	TDLI/SJTU	Lei Zhang	NJU
Yuhui Li	IHEP	Hongbo Zhu	ZJU
Ming Qi	NJU	Huaxing Zhu	ZJU
Workshop Secretaries			
Sicheng Zhou	Hongjuan Xu	Yaru Wu	Jing Zhou



Many thanks to the local organizing team

Thank you all for participating
and making this workshop fruitful !

Have a safe trip to your loved ones !

Hope to see you at the next workshop !