

IAS PROGRAM

High Energy Physics

February 12 – 16, 2023

Conference: February 14 – 16, 2023

Panel Session

Tao HAN (Univ. Pittsburgh)

Michael HOFER (CERN)

Andrea LATINA (CERN)

Yifang WANG (IHEP)

Akira YAMAMOTO (KEK)

Given the opportunities in HEP (particularly in energy frontier and neutrino physics) for the coming decades, we will discuss in the panel session how to strengthen the synergies of the relevant projects, the collaboration of different parties, and the involvement of industry participations, such that the chance to achieve the planned scientific goals can be maximized.

We will first invite our panel members to share their views (3-5 min for each). Then we will invite questions from the audience.

Jointly organized by

- Joint Consortium of Fundamental Physics, Hong Kong
- IHEP, Chinese Academy of Science, Beijing

Organizing Committee for the Program

Andrew G. COHEN (Chair)	The Hong Kong University of Science and Technology (IAS Director, Acting Dean of Science and Lam Woo Foundation Professor)
John ELLIS	CERN and King's College London
Xinchou LOU	
Kam-Biu LUK	
Qing QIN	
Henry TYE	

Organizing Committee for the Conference (February 14-16, 202)

Marica BIAGINI	INFN
Angeles FAUS-GOLFE	IJClab
Jie GAO	Institute of High Energy Physics, Chinese Academy of Sciences
Joao GUIMARAES DA COSTA	Institute of High Energy Physics, Chinese Academy of Sciences
Lingfeng LI	Brown University
Yuhui LI	Institute of High Energy Physics, Chinese Academy of Sciences

Jia LIU
Tao LIU (Chair)
Kirill PROKOFIEV
Manqi RUAN

Makoto TOBIYAMA
Akira YAMAMOTO
Frank ZIMMERMANN

Conveners of the Mini-workshops (February 12-13, 2023)

Experiment / Detector - Title is to be confirmed

Joao GUIMARAES DA COSTA	Institute of High Energy Physics, Sciences
Manqi RUAN	Institute of High Energy Physics, Sciences

Theory - High-Energy Physics at Low-Energy Scale Collisions

Lingfeng LI	Brown University
Jia LIU	Peking University

	Tuesday	Wednesday	Thursday
HK Time	14-Feb	15-Feb	16-Feb
08:30-08:50	Conference Registration		
08:55-09:00	Welcome Remarks by Andrew COHEN (HKUST)		
	Session Tu 1 Venue: IAS Lecture Theater (LT) [Chair: Tao LIU (HKUST)]	Session W1 Venue: IAS Lecture Theater (LT) [Chair: Jie GAO (IHEP)]	Session Th 1 Venue: IAS Lecture Theater (LT) [Chair: Tao LIU (HKUST)]
9:00	Plenary #01 Perspective Talk [Zoom] ARKANI-HAMED Nima (Princeton U)	Plenary #05, ILC Progress [Zoom] (Akira YAMAMOTO/ KEK)	Plenary #10, New Approaches on DM Detection Tien-Tien YU (U of Oregon)
9:45	Plenary #02 New Physics Opportunities at ee Colliders Liantao WANG (U of Chicago)	Plenary #06 CLIC Progress (Andrea LATINA/ CERN)	Close Talk Tao HAN (U of Pittsburgh)
10:30	Coffee Break		
	Session Tu2 Venue: IAS Lecture Theater (LT) [Chair: Joao GUIMARAES DA COSTA (IHEP)]	Session W2 Venue: IAS Lecture Theater (LT) [Chair: Manqi RUAN (IHEP)]	Session Th 2 Venue: IAS Lecture Theater (LT) [Chair: Tao LIU (HKUST)]
11:00	Plenary #03 CEPC Progress Haijun YANG (Shanghai Jiaotong U)	Plenary #7 Quantum Simulation for High Energy Physics Ying-Ying LI (U of Science and Technology of China)	Forum Discussion Leader: Tao LIU (HKUST) Panel members: (1) Tao HAN (U of Pittsburgh), (2) Michael HOFER (CERN), (3) Andrea LATINA (CERN), (4) Yifeng WANG
11:30		Plenary #8 New Dark SHINE Exp Kun LIU (Shanghai Jiaotong U)	
11:45		Plenary #9 Excesses at the LHC and Potential Implications for the HL-LHC and e+e- Colliders Bruce MELLADO (U of the Witwatersrand and iThemba LABS)	
12:00	Plenary #04 FCC Progress Michael HOFER (CERN)		
12:30	Program Lunch for Registered Participants only		
	Session Tu3-AP01 (Accelerator) Venue: IAS LT [Chair: Marica BIAGINI (INFN) [Zoom]]	Session Tu3-ED01 (Experiment/Detector) Venue: IAS 1038 [Chair: Yong LIU (IHEP)]	Session Tu3-TH01 (Theory) Venue: IAS 2042 [Chair: Yongchao ZHANG (Southeast U)]
14:00	Makato TOBIYAMA [Zoom] (KEK)	Michael K. SULLIVAN [Zoom] (SLAC)	Yu GAO (IHEP)
14:20	Yiwei WANG (IHEP)	Suen HOU (Institute of Physics)	Shun ZHOU (IHEP)
14:25	Dou WANG (IHEP)	Haoyu SHI (IHEP)	Xuxiang LI (Peking U)
14:40	Cai MENG [Zoom] (IHEP)	Guangyi TANG (IHEP)	Sida LU (HKUST)
15:00	Sha BAI (IHEP)		
15:15			
15:20			
	Coffee Break (15:40 - 16:00)		
15:40	Session Tu3-AP02 (Accelerator) Venue: IAS LT [Chair: Jie GAO (IHEP)]	Session Tu3-ED02 (Experiment) Venue: IAS 1038 [Chair: Xuai ZHUANG (IHEP)]	Session Tu3-TH02 (Theory) Venue: IAS 2042 [Chair: Haipeng AN (Tsinghua U)]
16:00	Frank ZIMMERMANN [Zoom] (CERN)	Yaquan FANG (IHEP)	Serguey PETCOV [Zoom] (SISSA)
16:20	Yongsheng MA (IHEP)	Mingshui CHEN (IHEP)	Wen YIN [Zoom] (Tohoku U)
16:25	Wen KANG (IHEP)	Huaqiao ZHANG (IHEP)	Bo LIU (IHEP)
16:40	Bin CHEN (IHEP)	Hao ZHANG (IHEP)	Sungwoo HONG [Zoom] (KAIST)
16:50	Jinhui CHEN (IHEP)	Gang LI (IHEP)	
17:00	Jingru ZHANG (IHEP)		
17:15			
17:20			
17:40			

	Sunday	Monday
	12-Feb	13-Feb
	Experiment/Detector (1/F)	Theory (2/F)
08:30-08:50	Registration	Registration
08:55-09:00	Welcome Remarks	Welcome Remarks
	Session S-ED1 Venue: IAS1038 [Chair: Zhijun LIANG (IHEP)]	Session S-TH1 Venue: IAS2042 [Chair: Liming ZHANG (Tsinghua U)]
9:00	Tianya WU (IHEP)	Jure ZUPAN [Zoom] (U of Cincinnati)
9:20	Yiming LI (IHEP)	Lorenzo CALIBBI (Nankai U)
9:25	Sheng DONG (IHEP)	Qin QIN (Huazhong U of Science and Technology)
9:40	Yunyun FAN (IHEP)	Anson KWOK (HKUST)
9:50	Chengxin ZHAO [Zoom] (Institute of Modern Physics)	
10:00		
10:15		
10:20		
	Coffee Break	
	Session S-ED2 Venue: IAS1038 [Chair: Lorenzo CALIBBI (Nankai U)]	Session S-TH2 Venue: IAS2042 [Chair: Yu GAO (IHEP)]
11:00	Shanzhen CHEN [Zoom] (IHEP)	Mengchao ZHANG (Jinan U)
11:25	Zhen HU (Tsinghua U)	Yuichiro NAKAI (Shanghai Jiaotong U)
11:50	Kai YI (Nanjing Normal U)	Xiao-ping WANG (Beihang U)
12:15	Liming ZHANG (Tsinghua U)	Yong Chao ZHANG (Southeast U)
12:40	Lunch Break (Self-arranged)	
	Session S-ED3 Venue: IAS1038 [Chair: Huaqiao ZHANG (IHEP)]	Session S-TH3 Venue: IAS2042 [Chair: Hao ZHANG (IHEP)]
14:00	Yong LIU (IHEP)	Alessandro VICINI [Zoom] (U of Milan)
14:25	Sen QIAN (IHEP)	Bin YAN [Zoom] (IHEP)
14:50	Roberto FERRARI (INFN Pavia)	Jiayin GU (Fudan U)
15:15	Huilin QU (CERN)	Jean-Claude BRIENT [Zoom] (Ecole Polytechnique)
	Coffee Break	
15:40	Session S-ED4/ S-TH4 Venue: IAS LT [Chair: Jiayin GU (IHEP)]	Session M-ED3 Venue: IAS1038 [Chair: Mingyi DONG (IHEP)]
16:00	Manqi RUAN (IHEP)	Huirong QI (IHEP)
16:25	Roman POESCHL [Zoom] (IJClab)	Mingyi DONG (IHEP)
16:50	Zhijun LIANG (IHEP)	Peter KLUIT (NIKFHH) [Zoom]
17:15	Paul COLAS [Zoom] (CEA)	Jean-Claude BRIENT [Zoom] (INFN and U of Bari)
	Coffee Break	
	Session M-ED4 Venue: IAS1038 [Chair: Mingshui CHEN (IHEP)]	Session M-TH2 Venue: IAS2042 [Chair: Xiaoping WANG (Beihang U)]
16:00	Roberto FERRARI (INFN Pavia)	Xingtao HUANG (Shandong U)
16:25	Huaxing ZHU (Zhejiang U)	Weidong LI (IHEP)
16:50	Zhao LI (IHEP) [Zoom]	Shengsun SUN (IHEP)
17:15	Siqi YANG (U of Science and Technology of China) [Zoom]	Xiaomei ZHANG (IHEP)
	Coffee Break	
	Session M-TH3 Venue: IAS2042 [Chair: Qin QIN (Huazhong U of Science and Technology)]	Session M-TH4 Venue: IAS2042 [Chair: Zhen LIU (U of Minnesota)]
16:00	Rick S. GUPTA (Tata Institute of Fundamental Research)	Manqi RUAN (IHEP)
16:25	Juraj KLARIC (Catholic University of Louvain) [Zoom]	Roman POESCHL [Zoom] (IJClab)
16:50	Shengdu CHAI (Fudan U)	Zhijun LIANG (IHEP)
17:15	Zeren Simon WANG [Zoom] (National Tsinghua U)	Paul COLAS [Zoom] (CEA)

HKUST Jockey Club INSTITUTE FOR ADVANCED STUDY

IAS Program on

The Future of High Energy Physics

5 - 30 Jan 2015

THE HONG KONG UNIVERSITY OF SCIENCE AND TECHNOLOGY | IAS HKUST JOCKEY CLUB INSTITUTE FOR ADVANCED STUDY

IAS PROGRAM

High Energy Physics

January 6-24, 2020

THE HONG KONG UNIVERSITY OF SCIENCE AND TECHNOLOGY | 25 IAS HKUST JOCKEY CLUB INSTITUTE FOR ADVANCED STUDY

IAS Program on

High Energy Physics

4-29 Jan 2016 Conference: 18-21 Jan 2016

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Online Program

High Energy Physics

January 14-21, 2021

THE HONG KONG UNIVERSITY OF SCIENCE AND TECHNOLOGY | IAS HKUST JOCKEY CLUB INSTITUTE FOR ADVANCED STUDY

High Energy Physics

9 - 26 Jan 2017

Conference: 23 - 26 Jan 2017

IAS PROGRAM

Online Program

High Energy Physics

January 13-19, 2022

THE HONG KONG UNIVERSITY OF SCIENCE AND TECHNOLOGY | IAS HKUST JOCKEY CLUB INSTITUTE FOR ADVANCED STUDY

High Energy Physics

8 - 26 Jan 2018

IAS PROGRAM

High Energy Physics

February 12 - 16, 2023

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THE HONG KONG UNIVERSITY OF SCIENCE AND TECHNOLOGY | IAS HKUST JOCKEY CLUB INSTITUTE FOR ADVANCED STUDY

IAS PROGRAM

High Energy Physics

January 7-25, 2019

2024 - 10th program!



Thank you! See you in 2024!