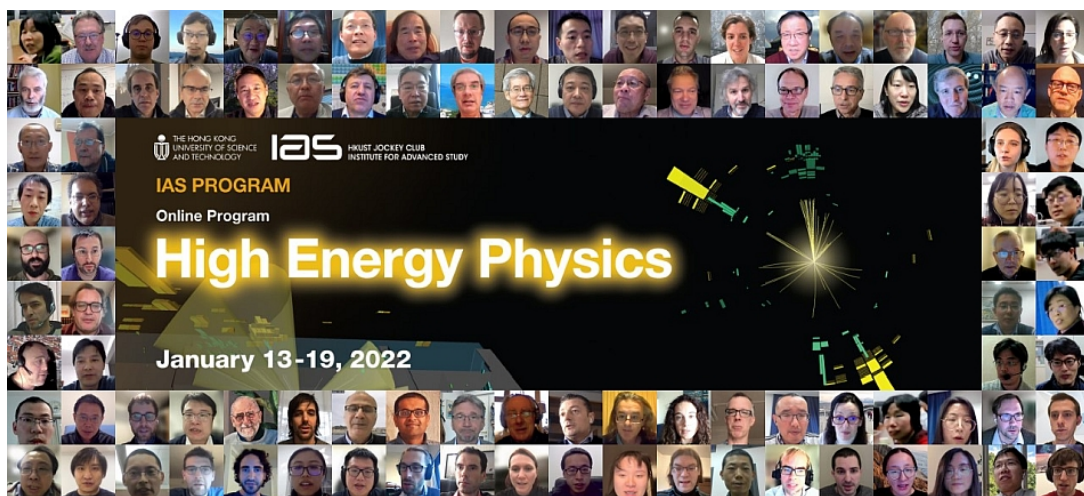


Session Program

13-19 Jan 2022



IAS Program on High Energy Physics (HEP 2022)

Mini-workshop: Accelerator Physics - Key Beam Physics and Technologies Issues for Colliders

Online via Zoom
(Details will be available in due course)

Thursday 13 January

15:00

Mini-workshop: Accelerator Physics - Key Beam Physics and Technologies Issues for Colliders: Day 1 - Session 1 (MW-AP-D1-S1)

Session | **Location:** Online via Zoom, (Details will be available in due course) | **Convener:** Eugene LEVICHEV

15:00–15:20 Beam Physics Frontier Problems

Speaker

Frank ZIMMERMANN

15:20–15:40 Super-KEKB: What Have We Learned

Speaker

Makoto TOBIYAMA

15:40–16:00 CEPC Accelerator Status towards TDR

Speaker

Jie GAO

16:00–16:20 CEPC Collider Lattice Optimization Design

Speaker

Yiwei WANG

16:20–16:40 CW Beam Physics Analysis

Speaker

Demin ZHOU

16:40–16:50 Break

16:50

16:50

Mini-workshop: Accelerator Physics - Key Beam Physics and Technologies Issues for Colliders: Day 1 - Session 2 (MW-AP-D1-S2)

Session | **Location:** Online via Zoom, (Details will be available in due course) | **Convener:** Yuhui LI

16:50–17:10 Beam-beam Effects in Colliders - An Overview

Speaker

Tatiana PIELONI

17:10–17:30 VEPP-2000 Experience with Round Beams

Speaker

Dmitry B. SHWARTZ

17:30–17:50 CEPC Beam-beam Effects Studies

Speaker

Yuan ZHANG

17:50–18:10 SuperKEKB RF Gun Injector Design and Operation

Speaker

Rui ZHANG

18:10–18:30 CEPC Linac Injector Design

Speaker

Cai MENG

18:30–18:50 CEPC RF Gun Design**Speaker**

Tianmu Xin

18:50–20:00 Long Break**Mini-workshop: Accelerator Physics - Key Beam Physics and Technologies Issues for Colliders: Day 1 - Session 3 (MW-AP-D1-S3)****Session** | **Location:** Online via Zoom, (Details will be available in due course) | **Convener:** Frank ZIMMERMANN**20:00–20:20 FCC-ee Design****Speaker**

Jacqueline KEINTZEL

20:20–20:40 SuperKEKB Collimator System**Speaker**

Takuya ISHIBASHI

20:40–21:00 IR Modelling for FCC-ee**Speaker**

Leon VAN RIESEN-HAUPT

21:00–21:20 CEPC MDI issues**Speaker**

Sha BAI

21:20–21:40 CEPC SC Quadrupole Magnet R&D**Speaker**

Yingshun ZHU

21:40–21:50 Break**Mini-workshop: Accelerator Physics - Key Beam Physics and Technologies Issues for Colliders: Day 1 - Session 4 (MW-AP-D1-S4)****Session** | **Location:** Online via Zoom, (Details will be available in due course) | **Convener:** Jie GAO**21:50–22:10 CEPC RF System and R&D****Speaker**

Jiyuan ZHAI

22:10–22:30 650MHz High Power High Efficiency Klystron**Speaker**

Zusheng ZHOU

22:30–22:50 Global Planning for Colliders - EPPS, Snowmass, China, Russia**Speaker**

Vladimir SHILTSEV

22:50–23:10 C³ Linear Colliders - A New Approach

23:10

Speaker

Emilio A. NANNI

Friday 14 January

15:00

Mini-workshop: Accelerator Physics - Key Beam Physics and Technologies Issues for Colliders: Day 2 - Session 1 (MW-AP-D2-S1)

Session | **Location:** Online via Zoom, (Details will be available in due course) | **Convener:** Jie GAO

15:00–15:20

CEPC Mechanics Design

Speaker

Haijing WANG

15:20–15:40

CEPC Injection/ Extration and Timing

Speaker

Xiaohao Cui

15:40–16:00

CEPC Collective Instabilities Studies

Speaker

Na WANG

16:00–16:20

On Polarization and Energy Calibration in e+e- Colliders

Speaker

Sergei NIKITIN

16:20–16:40

CEPC Polarization

Speaker

Zhe DUAN

16:40–16:50

Break

16:50

16:50

Mini-workshop: Accelerator Physics - Key Beam Physics and Technologies Issues for Colliders: Day 2 - Session 2 (MW-AP-D2-S2)

Session | **Location:** Online via Zoom, (Details will be available in due course) | **Convener:** Winfried DECKING

16:50–17:10

CEPC Collider Ring and Booster Magnets R&D

Speaker

Mei YANG

17:10–17:30

CEPC Vacuum System R&D

Speaker

Yongsheng MA

17:30–17:50

SuperKEKB Control System and Operation

Speaker

Kaji HIROSHI

17:50–18:10

CEPC Control System

Speaker

Gang LI

18:10–18:30

CEPC Booster+damping Ring Design

20:00

20:00

21:50

21:50

Speaker
Dou WANG

18:30–18:50 **CEPC Alignment and Installation**

Speaker
Xiaolong WANG

18:50–20:00 **Long Break**

Mini-workshop: Accelerator Physics - Key Beam Physics and Technologies Issues for Colliders: Day 2 - Session 3 (MW-AP-D2-S3)

Session | **Location:** Online via Zoom, (Details will be available in due course) | **Convener:** Makoto TOBIYAMA

20:00–20:20 **Muon Colliders - Challenges**

Speaker
Daniel SCHULTE

20:20–20:40 **SppC Study Status**

Speaker
Jingyu TANG

20:40–21:00 **CEPC Cryogenic System R&D**

Speaker
Rui GE

21:00–21:20 **CEPC Instrumentation R&D**

Speaker
Yanfeng SUI

21:20–21:40 **CEPC Plasma Injector Studies**

Speaker
Dazhang LI

21:40–21:50 **Break**

Mini-workshop: Accelerator Physics - Key Beam Physics and Technologies Issues for Colliders: Day 2 - Session 4 (MW-AP-D2-S4)

Session | **Location:** Online via Zoom, (Details will be available in due course) | **Convener:** Vladimir SHILTSEV

21:50–22:10 **SppC High Field SC Magnet R&D**

Speaker
Qingjin XU

22:10–22:30 **Superconducting Magnet Technology Development**

Speaker
Stephen GOURLAY

22:30–22:50 **Coherent Electron Cooling - Promise and Challenges**

Speaker
Gennady STUPAKOV

22:50–23:10 **Plasma Colliders**

23:10

Speaker

Carl SCHROEDER