

**Session Program**

**17-24 Jul 2024**

**ICHEP 2024**

***Accelerators: Physics, Performance, and R&D  
for future facilities***

Prague

## Thursday 18 July

08:30

### Accelerators: Physics, Performance, and R&D for future facilities: Accelerators: Physics, Performance, and R&D for future facilities

Session | Location: Club D | Convener: Gaku Mitsuka

#### 08:30–08:48 Status of the CEPC Project

##### Speaker

Haijun Yang

#### 08:48–09:06 ILC and CLIC Project Status and Plans

##### Speaker

Jenny List

#### 09:06–09:24

### Highlight from SuperKEKB Beam Commissioning after Upgrading during Long Shutdown

##### Speaker

kyo shibata

#### 09:24–09:42 FCC-ee Collider Design Overview

##### Speaker

Kevin Andre

#### 09:42–10:00 The R&D Roadmap towards ERL-based particle physics colliders

##### Speaker

Jorgen D'Hondt

#### 10:00–10:15

### PERLE and bERLinPro, two key accelerator projects as pathfinders for future ERL based HEP colliders

##### Speaker

Walid KAABI

10:15

10:45

### Accelerators: Physics, Performance, and R&D for future facilities: Accelerators: Physics, Performance, and R&D for future facilities

Session | Location: Club D | Convener: Gaku Mitsuka

#### 10:45–11:00 Physics Program for Super Tau-Charm Facility

##### Speaker

Haiping Peng

#### 11:00–11:15 Accelerator design and R&D efforts for Super Tau-Charm Facility

##### Speaker

Prof. Jingyu Tang

#### 11:15–11:30 Study status of Beam Backgrounds and MDI Design at the CEPC

##### Speaker

Haoyu Shi

11:30-11:45

**Status of HALHF - a concept for a hybrid asymmetric linear Higgs factory****Speaker**

Brian Foster

11:45-12:00

**Progress in the center-of-mass energy calibration and monochromatization at FCC-ee****Speaker**

Aurelien Martens

12:00-12:15

**A crystal-based positron source for lepton colliders****Speaker**

Nicola Canale

12:15-12:30

**R&D for positron sources at high-energy lepton colliders****Speaker**

gudrid moortgat-pick

12:30

14:30

**Accelerators: Physics, Performance, and R&D for future facilities:  
Accelerators: Physics, Performance, and R&D for future facilities****Session** | **Location:** Club D | **Convener:** Nicolas Mounet

14:30-14:48

**Status and prospects of the HL-LHC project****Speaker**

Hector Garcia Gavela

14:48-15:06

**HL-LHC Crab Cavities & Future Prospects****Speaker**

Rama Calaga

15:06-15:24

**The electron cloud challenge for the HL-LHC****Speaker**

Lotta Mether

15:24-15:42

**Present and future beam collimation: challenges and solutions for HL-LHC and future projects****Speaker**

Dr Stefano Redaelli

15:42-15:57

**New baseline layout of the CERN Future Circular hadron-hadron Collider****Speaker**

Gustavo Perez Segurana

15:57-16:15

**The High-Field Magnet Programme: Magnet R&D for FCC-hh in Europe****Speaker**

Bernhard Auchmann

16:15

16:45

**Accelerators: Physics, Performance, and R&D for future facilities:  
Accelerators: Physics, Performance, and R&D for future facilities****Session** | **Location:** Club D | **Convener:** Jiri Kral

16:45–17:03

**Significant upgrades of magnetic horn system for J-PARC neutrino beamline towards 1.3 MW beam power****Speaker**

Tetsuro Sekiguchi

17:03–17:21

**High intensity upgrades for fixed-target experiments at CERN****Speaker**

Johannes Bernhard

17:21–17:36

**Update on TWOCRIST: the feasibility of double-crystal fixed-target experiments at the LHC****Speaker**

Pascal Hermes

17:36–17:54

**EIC Electron Injector Systems Overview****Speaker**

Vahid Ranjbar

17:54–18:12

**The LHeC and FCC-eh experimental program****Speaker**

Jorgen D'Hondt

18:30

## Friday 19 July

08:30

### Accelerators: Physics, Performance, and R&D for future facilities: Accelerators: Physics, Performance, and R&D for future facilities

Session | Location: Club D | Convener: Diktys Stratakis

08:30–08:45

#### Atomic Layer deposited thin coatings for Secondary Electron Emission yield optimization

##### Speaker

Mathieu Lafarie

08:45–09:00

#### Compact online scintillation spectrometer and dosimeter for LWFA sources

##### Speaker

Benoit Lefebvre

09:00–09:15

#### Compact Electron Linacs for Research, Medical, and Industrial Applications

##### Speaker

Laurence Matthew Wroe

09:15–09:30

#### The ICMuS2 Project: Production of a Multi-GeV Muon Beam using Laser Wakefield Acceleration

##### Speaker

Dr Anna Cimmino

09:30–09:45

#### Optimizing Mu2e Experiment: Beam Shadowing with Channeling in Bent Crystals for Enhanced Extraction Efficiency

##### Speaker

Marco Romagnoni

09:45–10:00

#### The new High Intensity and Brightness Beams at PSI: Status and prospects

##### Speaker

Angela Papa

10:00–10:15

#### nuSTORM: neutrino physics on the path to the muon collider

##### Speaker

Mr Paul Bogdan Jurj

10:15

10:45

### Accelerators: Physics, Performance, and R&D for future facilities: Accelerators: Physics, Performance, and R&D for future facilities

Session | Location: Club D | Convener: Diktys Stratakis

10:45–11:03

#### Machine-detector interface design for a 10-TeV muon collider

12:30	<b>Speaker</b> Daniele Calzolari
	<b>11:03-11:21 Muon Collider Progress</b>  <b>Speaker</b> Donatella Lucchesi
	<b>11:21-11:39 Final Cooling with Thick Wedges for a Muon Collider</b>  <b>Speaker</b> Daniel Fu
	<b>11:39-11:57 Transverse Collective Effects studies for a Muon Collider</b>  <b>Speaker</b> David Amorim
	<b>11:57-12:15 Physics Potential, Accelerator Options, and Experimental Challenges of a TeV-Scale Muon-Ion Collider</b>  <b>Speaker</b> Darin Acosta