

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

Speaker

Daniele Calzolari

11:03-11:21 Muon Collider Progress**Speaker**

Donatella Lucchesi

11:21-11:39 Final Cooling with Thick Wedges for a Muon Collider**Speaker**

Daniel Fu

11:39-11:57 Transverse Collective Effects studies for a Muon Collider**Speaker**

David Amorim

11:57-12:15**Physics Potential, Accelerator Options, and Experimental Challenges of a TeV-Scale Muon-Ion Collider****Speaker**

Darin Acosta

12:30