

CEPC European Edition Workshop

First meeting of the Scientific Program Committee
January 29, 2026

Committee Membership

Thank you everyone for joining the committee

<https://indico.cern.ch/event/1598929/overview>

- 39 SPC committee members
- Split into three main areas linked to the parallel sessions that we need to organize
- Your input is welcome in ALL areas; Still, please let me know if you feel I should list you with a different label
- Chair:
 - Joao Guimaraes da Costa



2026 European Edition of the

International Workshop on the Circular Electron-Positron Collider

 7-10 April 2026

 **LOCAL ORGANISING COMMITTEE**

Gustavo Branco (CFTP/IST, U. Lisboa)
Paulo Fonte (LIP-Coimbra/ISEC, HADES Coll.)
Filipe Joaquim (CFTP/IST, U. Lisboa)
Nuno Leonardo (LIP - Lisboa/IST, U. Lisboa, CMS Coll.)
António Onofre (LaPMET/CF-UM-UP, U. Minho, ATLAS Coll.)
M. (Gui) Rebelo (Chair) (CFTP/IST, U. Lisboa)
João Seixas (LaPMET/CeFEMA/IST, U. Lisboa, CMS Coll.)
J. (Juca) Silva-Marcos (CFTP/IST, U. Lisboa)
Andreas Trautner (CFTP/IST, U. Lisboa)
Hongjuan Xu (IHEP, CAS, China)

 **LOCAL SCIENTIFIC SECRETARIAT (CFTP GRADUATE STUDENTS)**

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 <https://indico.cern.ch/e/CEPC2026EU>

 SCAN ME

 **IST Congress Center**
Instituto Superior Técnico
Lisboa, Portugal

Jointly organised by:
Centro de Física Teórica de Partículas (CFTP, Portugal) &
Institute of High Energy Physics (IHEP, CAS, China)

Scientific Program Committee

Franco Bedeschi — INFN/Pisa (Italy)
Maria Enrica Biagini — INFN/LNF (Italy)
Manuela Boscolo — INFN/LNF (Italy)
Gustavo Branco — CFTP/IST, U. Lisboa (Portugal)
Phillip Burrows — University of Oxford (UK)
Tiziano Camporesi — Boston University / LIP (Portugal)
João Guimarães da Costa — IHEP, CAS (China)
Monica D'Onofrio — University of Liverpool (UK)
Marco Drewes — UCLouvain (Belgium)
Angeles Faus-Golfe — IJCLab (France)
Nicola de Filippis — INFN/Bari (Italy)
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Liantao Wang — University of Chicago (USA)
John Womersley — University of Edinburgh (UK)
Haijun Yang — SJTU (China)
Jingbo Ye — IHEP, CAS (China)
Frank Zimmermann — CERN

 **TÉCNICO**
UNIVERSIDADE
DE LISBOA

 **CFTP**

 中国科学院高能物理研究所
Institute of High Energy Physics
Chinese Academy of Sciences

 **fct** Fundação
para a Ciência
e a Tecnologia
Project UIDB/00771/2025

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To Do

Today:

- General structure of workshop timetable (parallel vs plenary)
- Collect suggestions for plenary sessions
 - Key topics and talk suggestions
 - Panel discussion
- Define preliminary topics for parallel sessions and assign conveners, if possible
 - Typically, one CEPC person and at least one outsider
- Plan timescale and next meeting

Previous workshops (European Edition)

<https://indico.ifae.es/event/2054/page/108-previous-workshops>

- **Rome, May 2018**

- <https://agenda.infn.it/event/14816/timetable/#20180524.detailed>
- 104 participants

- **Oxford, April 2019**

- <https://indico.global/event/1704/timetable/#20190415.detailed>
- 158 participants

- **Edinburgh, July 2023**

- <https://indico.ph.ed.ac.uk/event/259/timetable/#20230703.detailed>
- 148 participants

- **Marseille, April 2024**

- <https://indico.in2p3.fr/event/20053/timetable/#20240408.detailed>
- 173 participants

- **Barcelona, June 2025**

- <https://indico.ifae.es/event/2054/>
- 140 participants

Workshop session structure

•Day 1 - Morning (Tue)

- Plenary (1:30h): 9:00 - 10:30
- Plenary (1:30h): 11:00 - 12:30

•Afternoon:

- Plenary (1:30h) 14:00 - 15:30
- Plenary (2h) 16:00 - 18:00

•Day 2 - Morning (Wed)

- Parallel (1:20h) 9:00 - 10:20
- Parallel (1:40h) 10:50 - 12:30

•Afternoon:

- Parallel (1:40h) 14:00 - 15:40
- Parallel (1:40h) 16:10 - 17:50

•Day 3 - Morning (Thu)

- Parallel (1:20h): 9:00 - 10:20
- Parallel (1:40h): 10:50 - 12:30

•Afternoon:

- Social event

•Day 4 - Morning (Fri)

- Plenary (1:30h) 9:00 - 10:30
- Plenary (1:30h) 11:00 - 12:30

•Afternoon:

- Plenary (1:30h) 14:00 - 15:30
- Plenary (2:00h) 16:00 - 18:00

Parallels are organized in 3 sessions, but we should have a couple of joint sessions

Workshop sessions

Plenaries: 30-min talks → 26 slots

- Six time blocks of 1.5 hours

Possibility of 18 talks (30 min)

- Two time blocks of 2 hours

Possibility of 8 talks (30 min)

Panel discussion for 1 hour to 1.5 hours

Welcome 30 min?

Total plenaries ~ 22 talks

Three parallel sessions tracks:

- Detector
- Accelerator
- Theory/Physics

Six time blocks

- 2 blocks: 1h20min → **4** talks/block
- 4 blocks: 1h40 → **5** talks/block

Typically:

20 minutes talks including 5 minutes for questions

28 talks per track

Joint sessions:

MDI (joint accelerator and detector)

Apr 9 11:00-12:30

Topics for plenary talks

- LHC physics reach — speaker from european strategy (Emanuele Bagnaschi) - perhaps have two talks one experimental and one theory
- European strategy outcome - Karl?
- How CERN intends to implement the ESG outcome - Gautier Hamel de Monchenault /Mark Thomson
- Theoretical Calculations QED — Who?
- Xuan Chen (Jinan, Shandong University) QCD
- What can we do in Flavour at FCC/CEPC, as compared to what can be LHCb can provide — Guy
- Linear collider vision - more general than CERN — Jenny List, Roman, Steinar
- Status of CEPC and goals for the next 5 years —
- Plasma acceleration
- Overview of HTSC magnet development (Iron base)
- News physics talks

Topics for plenary talks

- Highlights on CEPC Accelerator R&D (some topics discussed in more detail) — IARC committee could advise on some topics
- News physics talks → physics motivation
- Overview of PFA → parallel session with several talks
- CEPC Detector
- Debate/Roudtable/Panel Discussion (last day) — Yifang (ACFA chair), Cao Jun, Mark Thomson, Ursulla, Gautier, Paris (ECFA chair), Karl, Patrick Janot

Topics to discuss

Parallel talks

- SiPM session? —> Imad (provide names RD4, etc, organize)
- Timing session (LGADs and other techniques) —>
- Accelerator (Leaders: Jie Gao)
- Detector (Leaders: Eric, Haijun, Yanyan)
- Theory (Leaders: Gui, Sven, Alessandro)

Your mission after today:

Workshop in 2 months

- Advertise the workshop within your communities
 - Provide further suggestions for speakers of plenary and parallel sessions, in particular from your communities
- Help prepare the parallel sessions timetable, if you are willing to serve as a convener
- Provide further input for plenary talks and panel discussion
- Communicate by email to us any suggestions you might have
- **Workshop shared document:**
 - <https://cernbox.cern.ch/s/UKUkEUqqWwH2MRx> (password is cepec2026)
 - FYI, last year's: <https://cernbox.cern.ch/s/EbYqFimWVX489j5> (password is cepec2025)
- **Next meetings:**
 - Next week with doodle poll — only half of the committee was available for today

Information from last year in
Barcelona

Detector Program

- Suggest:
 - Appoint at least two conveners per parallel session. One CEPC group convener and at least one outside convener
- Sessions suggestions:
 - Silicon tracking, Fabrizio Palla (FCC - vertex), Marlon Barbero, Eva Vilella, Zhijun Liang
 - Gas detectors, Nicola de Filippis, Marie-Cruz Fouz, Huirong, Yi Wang (Tsinghua), RD1, Oliver Kortner
 - Calorimeters, Roberto Ferrari, Gabriella Gaudio, Emmanuel, Adrian Irles (Valencia), Romualdo Santoro, Yong Liu, Katja Krueger, Felix Sekfov,
 - Electronics and TDAQ, Manuel Rolo, Jingbo, William Panduro Vazquez, Fei Li (DAQ)
 - Joint MDI session, Manuela Boscolo, Haoyu, Sha Bai
 - Joint Simulation and Software session with physics group, Patrizia Azzi, Weidong
 - One extra session: Infrastructure, System Integration (Mechanics, Magnet, etc?), Lucio Rossi (magnet), Fabrizio Palla, Oscar Augusto de Aguiar Francisco (Manchester), Xiaoyan Ma

Physics/Theory Program

- Suggest:
 - Appoint at least two conveners per parallel session. One CEPC group convener and at least one outside convener
- Sessions suggestions:
 - Theoretical calculations and tools for high-precision e^+e^- colliders (proposed by Alessandro Vicini)
 - Higgs
 - Electroweak and Top
 - Flavor
 - QCD
 - Beyond Standard Model
 - Joint Simulation and Software session with detector group

The end. Thank you!