

CEPC European Edition Workshop

First meeting of the Scientific Program Committee
March 3, 2025

Joao Guimaraes, Sebastian Grinstein and Aurelio Juste

Committee Membership

Thank you everyone for joining the committee

- 41 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
- Chairs:
 - Sebastian Grinstein
 - Aurelio Juste Rozas
 - Joao Guimaraes da Costa

Scientific Committee				
Name	Last Name	Institute	Country	Area
Marica	Biagini	INFN Frascati	Italy	ACC
Manuela	Boscolo	INFN/LNF	Italy	ACC
Phillip	Burrows	U. Oxford	UK	ACC
Angeles	Faus-Golfe	IJCLab	France	ACC
Jie	Gao	IHEP	China	ACC
Eun-san	Kim	Korea University	Korea	ACC
Wei	Lu	IHEP	China	ACC
Concepcion	Oliver	CIEMAT	Spain	ACC
Makoto	Tobiyama	KEK	Japan	ACC
Frank	Zimmerman	CERN	CERN	ACC
Sebastian	Grinstein	Barcelona	Spain	Chair / DET
Joao	Guimaraes da Costa	IHEP	China	Chair / DET/Physics
Aurelio	Juste Rozas	IFAE	Spain	Chair / Physics
Vincent	Boudry	LLR	France	DET
Nicola	de Filippis	INFN/Bari	Italy	DET
Abraham	Gallas Torreira	IGFAE	Spain	DET
Yanyan	Gao	U. Edinburgh	UK	DET
Paolo	Giacomelli	INFN/Bologna	Italy	DET
Christine	Hu	IPHC	France	DET
Eric	Kajfasz	CPPM	France	DET
Imad	Laktineh	IP2I Lyon	France	DET
Jianbei	Liu	USTC	China	DET
Matthias	Schott	JGU	Germany	DET
Ivan	Vila	IFCA	Spain	DET
Jianchun	Wang	IHEP	China	DET
Jingbo	Ye	IHEP	China	DET
Franco	Bedeschi	INFN/Pisa	Italy	DET/Physics
Mario	Martinez	IFAE	Spain	DET/Physics
Marcel	Vos	IFIC	Spain	DET/Physics
Haijun	Yang	SJTU	China	DET/Physics
Patricia	Conde Muino	IST/LIP	Portugal	DET/Physics
Bill	Murray	U. Warwick	UK	DET/Physics
Manqi	Ruan	IHEP	China	DET/Physics
John	Womersley	Edinburgh	UK	DET/Physics
Monica	D'onofrio	Liverpool	UK	Physics
Jon	Butterworth	UCL	UK	Physics
Marco	Drewes	UCLouvain	Belgium	TH
Xiaogang	He	TDLI, SJTU	China	TH
Sven	Heinemeyer	IFT/IFCA	Spain	TH
Alessandro	Vicini	INFN/Milano	Italy	TH
Liantao	Wang	U. Chicago	USA	TH

To Do

Today:

- General structure of workshop timetable (parallel vs plenary)
- Collect suggestions for plenary sessions
 - Key topics and talk suggestions
 - Panel discussion
- Define 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

Workshop session structure

•Day 1 - Morning

- Plenary (2h): 9:00 - 11:00
- Plenary (1h): 11:30 - 12:30

•Afternoon:

- Parallel (2h) 13:45 - 15:45
- Parallel (2h) 16:15 - 18:15

•Day 2 - Morning

- Parallel (1:40h) 9:00 - 10:40
- Parallel (1:40h) 11:10 - 12:50

•Afternoon:

- Parallel (2h) 14:00 - 16:00
- Parallel (2h) 16:30 - 18:30

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

Workshop session structure

•Day 3 - Morning

- Parallel (2h): 9:00 - 11:00
- Plenary (1:30h): 11:30 - 13:00

•Afternoon:

- Social event
- (could be sessions if we wish)

•Day 4 - Morning

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

•Afternoon:

- Nothing
- (could be sessions if we wish?)

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

Workshop indico timetable: Monday morning

<https://indico.ifae.es/event/2054/timetable/#20250616>

09:00	Registration <i>UPF, Barcelona, Spain</i> 09:00 - 09:20
	Plenary 1 (Welcome and Introduction) <i>UPF, Barcelona, Spain</i> 09:20 - 10:00
10:00	Plenary 2 <i>UPF, Barcelona, Spain</i> 10:00 - 11:00
11:00	Coffee Break <i>UPF, Barcelona, Spain</i> 11:00 - 11:30
12:00	Plenary 2 <i>UPF, Barcelona, Spain</i> 11:30 - 12:30
13:00	Lunch Break <i>UPF, Barcelona, Spain</i> 12:30 - 13:45

Two time blocks for a total of 2 hours

30 minutes talks, including questions

Total: 4 talks

Typical talks:

- CEPC Accelerator: TDR and EDR planning
- FCC Accelerator
- LC or other Accelerator
- CEPC Physics/Detector overview: TDR status
- FCC Physics/Detector
- LC or other Physics/Detectors
- Physics keynote talk

Workshop indico timetable: Monday afternoon

<https://indico.ifae.es/event/2054/timetable/#20250616>

14:00	Parallel A: Detector 1	Parallel B: Accelerator 1	Parallel C: Physics 1
15:00			
	<i>UPF, Barcelona, Spain</i> 13:45 - 15:45	<i>UPF, Barcelona, Spain</i> 13:45 - 15:45	<i>UPF, Barcelona, Spain</i> 13:45 - 15:45
16:00	Coffee Break		
	<i>UPF, Barcelona, Spain</i> 15:45 - 16:15		
17:00	Parallel A: Detector 2	Parallel B: Accelerator 2	Parallel C: Physics 2
18:00	<i>UPF, Barcelona, Spain</i> 16:15 - 18:15	<i>UPF, Barcelona, Spain</i> 16:15 - 18:15	<i>UPF, Barcelona, Spain</i> 16:15 - 18:15

Three parallel sessions tracks:

- Detector
- Accelerator
- Theory/Physics

Two time blocks of 2 hours

Typically:

20 minutes talks with 5 minutes for questions

6 talks per session → 12 talks total

Workshop indico timetable: Tuesday

<https://indico.ifae.es/event/2054/timetable/#20250616>

Time	Parallel A	Parallel B	Parallel C
09:00	UPF, Barcelona, Spain 09:00 - 10:40	UPF, Barcelona, Spain 09:00 - 10:40	UPF, Barcelona, Spain 09:00 - 10:40
10:40 - 11:10	Coffee Break		
11:10	UPF, Barcelona, Spain 11:10 - 12:50	UPF, Barcelona, Spain 11:10 - 12:50	UPF, Barcelona, Spain 11:10 - 12:50
12:50 - 14:00	Lunch Break		
14:00	UPF, Barcelona, Spain 14:00 - 16:00	UPF, Barcelona, Spain 14:00 - 16:00	UPF, Barcelona, Spain 14:00 - 16:00
16:00 - 16:30	Coffee Break		
16:30	UPF, Barcelona, Spain 16:30 - 18:30	UPF, Barcelona, Spain 16:30 - 18:30	UPF, Barcelona, Spain 16:30 - 18:30

Four time blocks

- 2 blocks: 1h40min → **5** talks
- 2 blocks: 2h → **6** talks

Joint sessions:

Propose to make two joint sessions in either time block depending on demand (5 or 6 talks each)

Joint session 1: MDI

Joint session 2: Detector Simulation and Physics

Workshop indico timetable: Wednesday

<https://indico.ifae.es/event/2054/timetable/#20250616>



Parallels: One time block of 2 hours

6 talks per session

Total number of parallel talks (depending on the merging)

- Total slots are: $5 \times 6 + 2 \times 5 = 40$ talks for each track
- Merging MDI and Simulation Sessions separately:
 - Detector: ~30 talks + 10 merged
 - Accelerator: ~35 talks + 5 merged
 - Physics/Theory: ~35 talks + 5 merged

Plenary for 1.5 hours

Three 30 minutes talks, including questions

Workshop indico timetable: Thursday

<https://indico.ifae.es/event/2054/timetable/#20250616>

09:00	Plenary 4
	<i>UPF, Barcelona, Spain</i> 09:00 - 10:30
10:00	Coffee Break
	<i>UPF, Barcelona, Spain</i> 10:30 - 11:00
11:00	Plenary 4
	<i>UPF, Barcelona, Spain</i> 11:00 - 12:30
12:00	Lunch Break
	<i>UPF, Barcelona, Spain</i> 12:30 - 13:30
13:00	

Plenaries: two time block of 1.5 hours

Possibility of 6 talks (30 min) per session

Typically:

- 3 summary talks of parallel sessions
- A keynote physics talk
- Panel discussion

Maximum plenary talks:

13 talks (30 min) total if no panel discussion, otherwise 11 talks

Accelerator Program

- Suggest:
 - Gao Jie (chair)
 - Frank Zimmermann, Angeles Faus-Golfe and Marica Biagini (co-chairs)

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
 - Gas detectors
 - Calorimeters
 - Electronics and TDAQ
 - Joint MDI session
 - Joint Simulation and Software session with physics group
 - One extra session: Calorimeter, Silicon, Infrastructure (Mechanics, Magnet, etc?)

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

Your mission after today:

Workshop in 3.5 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
- **Next meetings:**
 - Propose mid/end of next week with doodle poll (if sufficient progress has been done) — only half of the committee was available for today
 - Third meeting by end of March
 - Fourth meeting in April, if needed

The end. Thank you!