Reunion FCC-contacts

vendredi 16 mai 2025, 09:00 → 10:30 Europe/Paris

09:00 → 09:30 **News de FCC / Evolution vers la phase pre-TDR** 30m

Orateur: Gregorio Bernardi (APC Paris CNRS/IN2P3)

09:30 → 09:50 **Bilan/Demande Ressources RH / Agenda Jamboree / Next FCC-France** 20m

Orateur: Gregorio Bernardi (APC Paris CNRS/IN2P3)

09:50 → 10:30 **Next steps / Tour de table des EoI et des différentes contributions** 40m

Orateurs: Catherine Biscarat (L2I Toulouse, CNRS/IN2P3, Université de Toulouse), Farès Djama (CPPM), Gaelle Boudoul (IP2I/AICP (CNRS/IN2P3)), Giovanni Marchiori (APC Paris), Jean-Baptiste De Vivie De Regie, Luc Poggioli (LPNHE Paris), Marco Delmastro (LAPP), Nicolas Morange (IJCLab), Stephane Monteil (Laboratoire de Physique de Clermont - UCA/IN2P3), Suzanne GASCON-SHOTKIN (IP2I Lyon/Université Claude Bernard Lyon 1), Vincent BOUDRY (LLR - CNRS, École polytechnique/IPP Paris), Ziad EL BITAR (IPHC)

FCC Documents submitted to the ESPPU

- All documents are gathered in https://indico.cern.ch/event/1534205/
- The three volumes of the FSR are also on arXiv
  - Volume 1: https://arxiv.org/abs/2505.00272
  - Volume 2: https://arxiv.org/abs/2505.00274
  - Volume 3: https://arxiv.org/abs/2505.00273
  - Physics Manifesto: https://arxiv.org/abs/2504.02634
- The three volumes will be submitted to EPJ
  - EPJC for Volume 1, EPJST for Volumes 2&3
  - Submission intended by the end of this week
  - **URGENT:** if you have important corrections, send them **now** to Christophe (including corrections/additions to the author list)
  - There will be no update of the FSR: it is a snapshot of the work done till 31 March
- Please stick to the content of the FSR in public presentations

The Council and the CERN management were challenged about FCC

- In a vitriolic Nature article from a few old linear collider aficionados
- The fake news were propagated in the Guardian here
  - But were not propagated further in the press

- Costas Fountas (president of Council) sent a correspondence to Nature
  - "Next CERN collider has Community input": see here
    - This short reaction probably annihilates the potentially negative effects of the original article
    - But let's stay alert until the ESPPU final recommendation.

Response of the President of Council to Nature

As president of the CERN Council at Europe's particle-physics laboratory near Geneva, Switzerland, I would like to draw your attention to misleading statements in your News Feature (see *Nature* **639**, 560–563; 2025).

The article gives the false impression that CERN's management is promoting the Future Circular Collider (FCC) while disregarding the views of the high-energy physics community. This statement is contradicted by the facts.

The 2020 European Strategy for Particle Physics, representing the entire community's perspective, set as its highest priority an electron–positron Higgs factory in the short term with the ambition to operate a high-energy proton–proton collider thereafter. It also recommended investigating the technical and financial feasibility of a future hadron collid with an electron–positron collider as a possible first step. Consequently, the council mandated CERN's management to undertake a feasibility study for the FCC. Furthermore, i March last year, the council launched the next European Strategy update.

Given this, the claim that certain groups lack a proper forum to express their views and proposals or that CERN is rushing a decision on the FCC does not reflect reality.

Other misleading statements, contradicted by facts, concern the allocation of CERN resources to the various collider projects. It is unfortunate that these facts were ignored in the article and that the prevailing view of the community was disregarded.

FCC-ee tracking detectors and software (BNL, 7-9 May)

- Indico: https://indico.cern.ch/event/1516157/
  - The workshop aimed to foster collaboration between interested institutes to:
    - Discuss existing and new design choices for an integrated tracker and their challenges.
    - Develop specific configuration choices that is important for further (simulation) studies
    - Draw up an actionable plan that can be followed up regularly.
  - > 55 talks over 3 days with several discussion sessions covering:
    - Overview of the present status for FCC-ee tracking detectors
    - Physics requirements, MDI constraints, ideas for vertex, silicon and gaseous trackers, reconstruction and simulation and putting forward other tracking detector concepts.
    - Summary of action items and ideas for alternate tracking concepts that needs further study posted in above indico page (under last brainstorming session).
- Summary will be presented during the Vienna FCC meeting
  - Tuesday afternoon, see talks by Carl Haber, Artur Apresyan, and Fabrizio Palla.
  - This workshop serves as a seed for an FCC Tracking group where concepts can be discussed and followed up. This would allow for interested parties to discuss and collaborate on both simulation and further R&D concepts.
  - Follow up meetings and annual workshops such as this are forthcoming.

Ongoing and future events

- Sustainable HEP 2025 (12-15 May): https://indico.global/event/4745/
  - Usual invited talks (30') from Vernieri and Bloom
    - I missed the deadline to submit an abstract for a 5' flash talk.
    - Our preprint https://arxiv.org/abs/2412.13130 will be updated in time for the ESU
- CERN EP/TH Faculty meeting (15 May): https://indico.cern.ch/event/1527581/
  - Exchange of views prior to the ESPPU Venice symposium
    - One presentation about the FCC Feasibility Study (Frank Zimmermann)
    - Several presentations about the possible plan B's (LCF, LEP3, LHeC)
    - Theory perspective and science diversity
- CERN event about the FSR (27 May): https://indico.cern.ch/event/1539606/
  - Speakers: Guy Wilkinson, Jacqueline Keintzel, Jean-Paul Burnet + Q&A
  - Following by a public event on the same topic in the evening
- LEP3 information meeting (28 May): https://indico.cern.ch/event/1546804/
  - Our favourite plan B (IF FCC is proven to be not feasible)?

Next steps - Pre-TDR phase

- We need to re-organise the PED effort for the pre-TDR phase, e.g., to
  - Establish the list of detector technologies able to meet the ambitious goals of FCC
    - Vertex detectors, trackers, calos, muon ID, hadron ID, timing, luminometer, magnets)
  - Enable the study and optimisation of all these technologies
    - Full simulation, digitisation, reconstruction in a single software framework + test beams
  - Consolidate methods and studies (especially at the Z pole and WW threshold)
    - To match systematic uncertainties to stat. Precision
  - Organise/accelerate development of theoretical calculations and event generators
    - To match theoretical uncertainties to experimental uncertainties
  - Develop access to large-scale computing & consolidate computing solutions
    - Before and during FCC-ee data taking
  - Consolidate detector cost estimate
  - Consolidate IR design and integration with detectors (+related backgrounds)
  - Consolidate beam polarisation method for $\sqrt{s}$ determination (+ monochromatisation)
  - Accelerate community building towards creating experimental collaborations
    - After project approval (~2028)

Next steps - Pre-TDR phase

- There is more to do than the shortlist presented in the previous slide
  - Goals and deliverables should be refined by each of the concerned groups
  - The most important deliverables should help the Council to convince themselves that the project is technically feasible and financially feasible on the PED side too, in view of taking a positive approval decision in 2028

- Today, the proposed reorganisation and aims of the Detector Concepts group during the pre-TDR phase are discussed, and feedback is requested
  - See next presentation from Mogens, Marc-André, and Felix.
  - Other groups will be discussed next
  - Please think of a proposal for your group ahead of time

Evolution of Detector Concepts Work Package

- In DRDs:
- RnD / technologies
  - Gaseous Detectors (DRD1)
  - Liquid Detectors (DRD2)
  - Semiconductor Detectors (DRD3)
  - Photodetectors & PID (DRD4)
  - Quantum Sensors (DRD5)
  - Calorimetry (DRD6)
  - Electronics (DRD7)
  - Mechanics (DRD8)

US R&D Collaborations (RDCs) focus on generic (non-targeted), interdisciplinary and blue sky R&D – will collaborate where possible.

In FCC Detector concepts:

a) Generic system-level studies
(create structure as needed or organize workshops)
- Tracker (e.g. Si + straw tracker)
- Calorimetry
- PID & Muons
- TDAQ
- Luminometry
- Magnet

b) Concept-specific studies
(using specific envelopes/support structures, or physics benchmarks)
- Allegro
- CLD
- IDEA
- ILD

Non-exclusive membership, need to preserve synergies and unity of the community!

Higgs PPG meeting

Indico: https://indico.cern.ch/event/1528681/

Overview of Higgs results as presented in the ESPPU report

- Highlighted individual analyses, methods, references
-

$\sqrt{s}$	240 GeV		365 GeV	
channel	**ZH**	**WW → H**	**ZH**	**WW → H**
ZH → any	±0.31		±0.52	
γH → any	±150			
H → bb	±0.21	±1.9	±0.38	±0.66
H → cc	±1.6	±19	±2.9	±3.4
H → ss	±120	±990	±350	±280
H → gg	±0.80	±5.5	±2.1	±2.6
H → ττ	±0.58		±1.2	±5.6 (*)
H → μμ	±11		±25	
H → WW*	±0.80		±1.8 (*)	±2.1 (*)
H → ZZ*	±2.5		±8.3 (*)	±4.6 (*)
H → γγ	±3.6		±13	±15
H → Zγ	±11.8		±22	±23
H → νννν	±25		±77	
H → inv.	$< 5.5 \times 10^{-4}$		$< 1.6 \times 10^{-3}$	
H → dd	$< 1.2 \times 10^{-3}$			
H → uu	$< 1.2 \times 10^{-3}$			
H → bs	$< 3.1 \times 10^{-4}$			
H → bu	$< 2.2 \times 10^{-4}$			
H → sd	$< 2.0 \times 10^{-4}$			
H → cu	$< 6.5 \times 10^{-4}$			

(*) Analyses ongoing, results taken from scaling CDR numbers

Report on PPG EW meeting 13 May 2025
https://indico.cern.ch/event/1544513/

Introduction (Emanuele Bagnaschi (INFN Frascati), Jorge de Blas (Granada (ES)), Monica Dunford (Heidelberg)

The goal:

-Where possible, to make comparisons across projects

→Defined some benchmarks processes related to EW/Higgs/Top physics that all projects aim to provide

The very large statistics and high precision of a variety of measurements at future e+e- colliders require **non trivial developments on the theory side in order to match the experimental precision.**
Due to their nature, the **estimation of theory uncertainties** is subject to a **high degree of arbitrariness**. Several prescriptions are used by the community. Even more difficult is estimating uncertainties based on future calculations.

PPG EW WG meeting on e+e- Electroweak precision measurements

Tuesday 13 May 2025, 16:00 → 18:30 Europe/Zurich

Emanuele Angelo Bagnaschi (INFN Laboratori Nazionali di Frascati), Jorge de Blas (Universidad de Granada (ES)), Monica Dunford (Heidelberg University (DE))

zoom PPG Electroweak physics WG meeting — Join

16:00 → 16:10 **Introduction** — 10m
PPG_EW_WG_Meeti...

16:10 → 16:40 **EW precision measurements at e+e- circular colliders** — 30m
Speaker: Alain Blondel (Universite de Geneve (CH))
Precision-EW-2025-... Precision-EW-2025-...

Essentially same as at performance meeting on 12/05/2025

16:40 → 17:10 **EW precision measurements at e+e- linear colliders** — 30m
Speaker: Roman Poeschl (Université Paris-Saclay (FR))
talk130525.pdf

17:10 → 18:05 **Discussion** — 55m

ELECTROWEAK PRECISION MEASUREMENTS AT CIRCULAR COLLIDERS

New EW results at FCC-ee

-- **A broad and powerful exploration**
  -- are there any more particles with weak couplings?
  -- any sign of neutrino partners or other faint particles mixing with SM?
  -- comments and requirements on robust methodology

-- **Beam Energy Calibration** *Breakthrough*
-- **Luminosity measurement** *Breakthrough*

-- **masses, widths and cross-sections**
  -- number of neutrinos *Breakthrough*

-- **dilepton events** : charge/FB asymmetries and partial width ratios
  -- **direct measurement of $\Delta\alpha(m_z)$** *Breakthrough*

-- **quark EWPOs** : charge/FB asymmetries and partial width ratios
Breakthrough

-- Final comments about TeraZ vs GigaZ… and LC visions

A. Blondel, IN2P3/CNRS and UNIGE

CEA and CNRS contribution
to the 2026 update of the European strategy for particle physics

François Jacq (Administrateur Général du CEA, François.Jacq@cea.fr)
Antoine Petit (Président-Directeur Général du CNRS, Antoine.Petit@cnrs.fr)

The future of CERN is a crucial challenge for France, which hosts this institution together with Switzerland. As a solid international organization already operating a truly global project such as the LHC, CERN has proven to be the best place worldwide to conduct forefront research in high-energy physics. It is important that CERN maintains its strength and international recognition: scientific excellence, especially in the field of high energy, innovative instrumental developments, and academic openness to the whole world. To anchor this leadership, the definition of the next flagship project at CERN, post LHC, is crucial.

The previous European Strategy for Particle Physics (ESPP) session led the CERN Council to adopt the principle of a technical and financial feasibility study for a future hadron collider with an energy of at least 100 TeV, at CERN, with, as a possible first phase, the construction of a Higgs factory in the form of an electron-positron machine. As the host state, France, in strong coordination with Switzerland, has been involved in this feasibility study, within its scope of responsibility, entrusted by the Prime Minister to the « Préfet de Région ». Careful consideration of the final conclusions of this feasibility study, in all its components, is very important as part of the new ESPP session, that begins.

CEA and CNRS wish to contribute to this ESPP session, by highlighting the following points:

The immediate priority for CERN remains the HL-LHC program, whose scientific exploitation must be maximized once the experimental facility is operational

The French particle physics community confirms the scientific interest of the FCC project, with its two phases — FCC-ee and FCC-hh — with FCC--ee offering a unique opportunity for high-precision electroweak and Higgs physics, while paving the way to the energy frontier. CERN is perfectly positioned to lead this ambitious project.

The current R&D efforts on accelerator components, in particular on accelerating RF systems and on high-field superconducting magnet technology (underlined as a top priority in the previous ESPP session), must be reinforced, as they will benefit both the next flagship program and a wider range of scientific and technological fields. These developments should help to reduce CERN technologies environmental impact.

Given the major uncertainties underlying the feasibility of the FCC project (environmental issues, financial sustainability in a particularly complex financial context, …), it is important to consider alternative scenarios to the FCC, so that CERN can be guaranteed to present a scientific program at the best level, if it were not ultimately decided by the CERN Council to launch the FCC project. The discussion on those alternative options, based at CERN, even if they present a reduced scientific potential and attractiveness, should be triggered and coordinated by CERN, with the active participation of the European scientific community, including of course representative from the French community.

Is there a best alternative scenario for FCC-France ?

Next Steps in FCC Collaboration building, from the PED side

- FCC project signs MoU, while FCC-PED has National Contacts and Institute contacts.
- To be more organized in PED, one of the issue is the different way the institutes/Universities are “registered”:
- Some have MoU’s, some depend on a National Mou, some have an addendum to the MoU specifying the commitments, some have only informal registration with IFNC

We have now a new possibility: Register the institutes under the FCC collaboration, to appear in the CERN Grey book, with a Team Leader (and possibly one or two Deputy Team Leader).

Goals:

1) Have the current PED institutes to register in the Grey Book, with a TL and possibly a DTL.

2) Obtain from the TL/DTL the expertise of the lab, and the activities in which the institute is involved and wants to be involved. This will allow to have a better estimate of the forces to realize the FCC projects

3) With the help of the National/Institute Contacts, contact more LHC teams (there are 244 in ATLAS, 257 in CMS, 98 in LHCb..) to ask when they would join FCC, starting from the countries already active at LHC !

How to register as a FCC team in the Grey book

Registration of a new FCC Team in the CERN Grey Book for Physics, Experiments and Detectors (PED) activities:

1. The institution signs the MoU for the FCC Feasibility Study (contact: fcc.office@cern.ch) See also Collaboration | Future Circular Collider
2. The institution sends the form 'Appointmentform_TL_DTL.pdf' to the PED Pillar Coordinator Patrick Janot for approval with fcc.office@cern.ch in copy. See also Duties and Obligations of the Team Leader | Users Office
3. Once approved by Patrick Janot, the FCC Study Office liaise with the CERN Grey Book for the registration of the team and the appointment of team leader and deputy/ies.

NB: institutions that participate in activities other than PED cannot request a team in the CERN Grey Book. Their participation and the registration of their members are handled via collaboration agreements (addenda to FCC MoU).

48 US institutions and their contacts for US HFCC

	contact name	contact email
U.-mass Amherst	Stephane Willocq	Stephane.Willocq@cern.ch
Argonne *	Jinlong Zhang	zhangjl@anl.gov
Arizonia *	Erich Varnes	varnes@physics.arizona.edu
Boston U	Zeynep Demiragli	zdemirag@bu.edu
Brandeis	Aram Apyan	aram.apyan@cern.ch
BNL *	Marc-Andre Pleier	mpleier@bnl.gov
BROWN *	Loukas Gouskos	Loukas.Gouskos@cern.ch
BU	Zeynep Demiragli	zeynep.demiragli@cern.ch
Caltech	Maria Spiropulu	smaria@caltech.edu
Carnegie Melon	John Alison	johnalison@cmu.edu
Columbia	John Parsons	parsons@nevis.columbia.edu
Cornell	Anders Ryd	ar322@cornell.edu
Duke	Ashutosh Kotwal	kotwal@phy.duke.edu
FIT *	Marcus Hohlmann	hohlmann@fit.edu
FNAL *	Anadi	acanepa@fnal.gov
Indiana	Chris Meyer	chris.meyer@cern.ch
Iowa *	Yasar Onel	Yasar.Onel@cern.ch
Jefferson lab	Kondo Gnanvo	kagnanvo@jlab.org
JOHN HOPKINS	Andrei Gritsan	gritsan@jhu.edu
Kansas	Graham Wilson	gwwilson@ku.edu
Maryland	Alberto Belloni	abelloni@umd.edu
Michigan *	Jianming Qian	qianj@umich.edu
Michigan state *	Reinhard Schwienhorst	schwier@msu.edu
Minnesota	Nadja Strobbe	nstrobbe@umn.edu

	contact name	contact email
MIT *	Christoph Paus	paus@mit.edu
Northeastern *	Louise Skinnari	l.skinnari@northeastern.edu
Northern Illinois U.	Vishnu Zutshi	vzutshi@niu.edu
Notre Dame	Randy Rutchi	rruchti@nd.edu
Oak Ridge	Mathieu Benoit	benoitm@ornl.gov
Ohio State	K.K. Gan	gan@mps.ohio-state.edu
Pittsburgh	Tae Min HOng	tmhong@pitt.edu
Princeton *	Chris Tully	cgtully@princeton.edu
Purdue *	Andreas Jung	anjung@purdue.edu
Rochester	Aran Garcia Bellido	aran@pas.rochester.edu
SLAC *	Charlie Young	young@slac.stanford.edu
Southern Methodist	Ryszard Stroynowski	ryszard@mail.physics.smu.edu
Stony Brook	Dmitri Tsybychev	Dmitri.Tsybychev@stonybrook.edu
Syracuse	Marina Artuso	martuso@syr.edu
Texas austin	Tim Andeen	tandeen@utexas.edu
Texas Tech	Nural Akchurin	nural.akchurin@ttu.edu
tufts	Hugo Beauchemin	hugo.beauchemin@tufts.edu
California Berkeley *	Carl Haber	chhaber@lbl.gov
california Santa Cruz *	Mike Hance	mhance@ucsc.edu
UC Irvine	Anyes Taffard	anyes.taffard@cern.ch
New Mexico *	Sally Seidel	seidel@unm.edu
VIRGINIA *	Bob Hirosky	hirosky@virginia.edu
U. Washington *	Shih-Chieh Hsu	schsu@uw.edu

* ：registered at the workshop (20/48)

Example of FCC teams in the Grey book

Institute Name	Institute Parent Name	Town	Country	Team Leader & Deputy Team Leader(s)
Laboratoire APC - Astroparticules et Cosmologie	Centre National de la Recherche Scientifique	Paris	France	(TL) BERNARDI, GREGORIO (DTL) MARCHIORI, GIOVANNI
Institut Pluridisciplinaire Hubert Curien	Centre National de la Recherche Scientifique	Strasbourg	France	(TL) EL BITAR, ZIAD (DTL) GOFFE, MATHIEU
LAPP-Laboratoire d'Annecy de Physique des Particules	Centre National de la Recherche Scientifique	Annecy-Le-Vieux	France	(TL) LAMANNA, GIOVANNI (DTL) BRUNETTI, LAURENT
Laboratoire Leprince-Ringuet	Centre National de la Recherche Scientifique	Palaiseau	France	(TL) BOUDRY, VINCENT
Department of Physics	University of Tehran	Tehran	Iran	(TL) AZIZI, KAZEM
Sezione di Padova	Universita e INFN, Padova	Padua	Italy	(TL) AZZI, PATRIZIA
Laboratori Nazionali di Frascati	INFN e Laboratori Nazionali di Frascati	Frascati	Italy	(TL) BOSCOLO, MANUELA
Universita & INFN Pisa		Pisa	Italy	(TL) PALLA, FABRIZIO (DTL) BEDESCHI, FRANCO
Sezione di Roma III	Universita e INFN Roma Tre	Rome	Italy	(TL) DI MICCO, BIAGIO (DTL) IODICE, MAURO
Universita e INFN, Ferrara		Ferrara	Italy	(TL) CIBINETTO, GIANLUIGI
Sezione di Napoli (INFN)	University Federico II and INFN, Naples	Naples	Italy	(TL) PAOLUCCI, PIERLUIGI (DTL) IORIO, ALBERTO ORSO MARIA
Sezione di Bologna INFN	Universita e INFN, Bologna	Bologna	Italy	(TL) GIACOMELLI, PAOLO
Universita degli Studi di Udine		Udine	Italy	(TL) PANIZZO, GIANCARLO
Sezione di Torino	Universita e INFN Torino	Turin	Italy	(TL) DA ROCHA ROLO, MANUEL DIONISIO
Universita e INFN, Perugia		Perugia	Italy	(TL) FANO', LIVIO
Sezione di Pavia	Pavia University and INFN	Pavia	Italy	(TL) BRAGHIERI, ALESSANDRO (DTL) GAUDIO, GABRIELLA
VINCA Institute of Nuclear Sciences	University of Belgrade	Belgrade	Serbia	(TL) PANDUROVIC, MILA (DTL) HADRE, JULIE
Particle Accelerator Physics Laboratory (LPAP-IPEP)	EPFL - Ecole Polytechnique Federale Lausanne	Lausanne	Switzerland	(TL) PIELONI, TATIANA
Department of Physics	University of Zurich	Zurich	Switzerland	(TL) CANELLI, FLORENCIA MARIA (DTL) KILMINSTER, BENJAMIN JOHN (DTL) MACCHIOLO, ANNA
Santa Cruz Institute for Particle Physics	University of California,Santa Cruz	Santa Cruz	United States	(TL) FANO', LIVIO (DTL) AFFOLDER, ANTHONY (DTL) MAZZA, SIMONE MICHELE
Department of Physics & Astronomy	Stony Brook University	Stony Brook	United States	(TL) PIACQUADIO, NICOLA GIACINTO (DTL) TSYBYSHEV, DMITRY

Statement of Intent – CERN & Canada

Signature of the Statement of Intent. CERN Director-General, Fabiola Gianotti, and His Excellency Mr Patrick Wittmann, Ambassador of Canada to Switzerland and Liechtenstein

March 2025

CERN and the Canadian government have released a **joint statement** concerning collaboration on future planning for large research infrastructure facilities, and on novel and advanced techniques and tools.

CERN and Canada intend to **enhance collaboration** in planning of future projects, continue & expand cooperation on innovative detector, accelerator and computing technologies, **strengthen collaboration on FCC studies**, and promote joint efforts in developing advanced techniques and tools, such as artificial intelligence and quantum technologies.

"Should the CERN Member States determine that the **FCC** is likely to be CERN's next world-leading research facility following the High-Luminosity Large Hadron Collider, **Canada intends to collaborate on its construction and physics exploitation**, subject to appropriate domestic approvals."

- This will boost Canadian involvement, and we will now try to have Institute Contacts as well

Progress with Taiwan

- Involvement of Taiwan Meeting held during the LHCP conference in Taipei last week with the responsibles of the 4 institutes involved in LHC (2 on CMS, 2 on ATLAS)

Name	Will attend in person
Kai-Feng Chen	Yes
Gregorio Bernardi	Yes
Stathes Paganis	Yes
Rong-Shyang Lu	Yes
Song-Ming Wang	Yes
Yun-Ju Lu	Yes
George Hou	Yes
Pai-hsien Hsu	yes
Yi Yang	Yes
Guy Wilkinson	Yes
Steven Lowette	Yes
Andreas Jung	Yes
Chia-Ming Kuo	Yes

- Situation was summarized, in particular about earlier involvement in CEPC, but not much happened after COVID.
- Now ready to think seriously about FCC
- Will nominate a national contact and institute contacts, and provide domains of possible contributions
- Will also get more involved in the DRD collaborations
- We also had a frank discussion about the degraded relations at the top level between China and Taiwan.

Progress with Bulgaria, Belgium

Bulgaria:

- Discussions during the restricted ECFA visit in March 2025
- Community realizes they should get involved.
- Will nominate National contact + Institute contacts. Currently in contact with Venelin Kozhuharov

Belgium/Netherland

- Evolution since Jorgen D'Hondt (Belgian National Contact) became Nikhef director
- Belgium (and Nederland) communities have taken a low key roles in these last years.
- Trying to make this evolves. Discussion took place in LHCP and some options appear interesting. Hopefully we will be converging by the RECFA visit to Belgium in early September

Engagement Meetings with Canada, Lithuania and Thailand to take place

Next week at FCC week

- Community building summary in the Monday morning plenary

- Collaboration board on Tuesday afternoon (5 to 7)

  - Will propose to have National Contacts and Team leaders present in Vienna to be invited as observers to the CB

- Informal dinner Tuesday evening : National Contacts + Team Leaders & DTL + PED Steering +Benedikt
  Invitation to be sent later today.
  Invitation will be extended to Institute Contacts on Monday if there is enough space.

Tour de table des news des EoI Francaises

Agenda du Jamboree, du 4 Juillet 2025

APC
CPPM
IJC Lab
IPHC
IP2I
LAPP
LLR
LPC
LPNHE
LPSC
L2IT

Bilan des ressources RH 2025

APC
CPPM
IJC Lab
IPHC
IP2I
LAPP
LLR
LPC
LPNHE
LPSC
L2IT

Ressources Humaines

APC

- Gregorio Bernardi : DR (0.7* ETP).
- Marco Bomben : MCF (0.1 ETP).
- Giovanni Marchiori: DR (0.4* ETP).
- Alexis Maloizel : PhD (0.5 ETP).
- Tong Li : post-doc mixte ATLAS-FCC (0.5 ETP) FIN 12/2024
- **TOTAL : 2.2 FTE**

LPNHE

- 3 permanents :
  - **Luc Poggioli** (Em, ATLAS/FCC, 80%), **Alain Blondel** (Em, FCC/T2K, 40%), **Bogdan Malaescu** (CR, ATLAS/FCC/g-2, 30%)
- 1 doctorant :
  - **Line Delagrange** 2/3 ATLAS, 1/3 FCC
    - soutenance en 2025 (Mesure de α_s dans ATLAS & études d'optimisation QCD au FCC
- 1 postdoc :
  - **Lata Panwar** (postdoc ANR-LEAP 07/2022-07/2025) 2/3 ATLAS, 1/3 FCC
    - Etude du Lund Jet Plane dans ATLAS. Utilisation dans FCC-ee et optimisation des paramètres des détecteurs

TOTAL : 2.5 FTE

RH : IJCLAB

Nom	Activité	ETP 2024	ETP 2025
Nicolas Morange	Allegro ; Physique	0.30	0.30
Daniel Fournier	Allegro	0.10	0.10
Ronic Chiche (IT)	Allegro	0.10	0.10
Laurent Serin	DRD	0.10	0.10
Marie-Hélène Schune	Grainita	0.15	0.15
Jacques Lefrançois	Grainita	0.35	0.35
Giulia Hull (IT)	Grainita	0.40	0.40
Ianina Boyarintseva	Grainita	0.30	0.30
Yasmine Amhis	Physique	0.10	0.10
Zuchen Huang (CDD, 01/12/2024)	Allegro	0.05	0.50
Sergey Barsuk	Grainita	0.05	0.05
Dominique Breton (IT)	Grainita	0.05	0.05
Jihane Maalmi (IT)	Grainita	0.05	0.05
Carlos Dominguez-Goncalves (IT)	Grainita	0.25	0.25

TOTAL : 2.35 FTE 2.80 FTE

Expt Theo

RH IP2I Lyon (2024, 2025)

Statut	Nom	FCC-PED	GRAM	AIDAINNOVA / T-CALO	T-MRPC	Total Futurs Collision.
Permanent	G. Boudoul	40%, 55%	1%, 5%			40%, 60%
	D. Contardo	20%, 20%	15%, 15%			35% 35%
	S. Gascon	25%, 25%				25%, 25%
	M. Gouzevitch	5%, 5%				15%, 0%
	G. Grenier	10%, 10%		30%, 30%	5%, 5%	45%, 45%
	I. Laktineh	10%, 10%		15%, 15%	15%, 15%	35%, 35%
	L. Mirabito	10%, 10%		5%, 5%	15%, 15%	25%, 25%
	G. Cacciapaglia	25%, 0%				25%, 0%
	A. Deandrea	20%, 20%				20%, 20%
	L. Darmé	10%, 10%				10%, 10%
	N. Mahmoudi	15%, 15%				15%, 15%
	F. Nortier	0% 40%				0%, 40%
Postdoc/ CDD	J. Xiao	10%, 10%				10%, 10%
	NN (‘mixte’)	5%, 30%				5%, 30%
Doctorant	E. Jourd’huy (D3)	10%, 0%				10%, 0%
	T. Pasquier (D2)	10%, 10%		65%, 0%	10%, 75%	85%, 85%
	W. Vaginay (D1)	20%, 85%				20%, 85%
	C. Verollet (D1)	5%, 30%				5%, 30%
	Total Project (FTE)	2.40, 3.80	0.15, 0.20	1.10, 0.45	0.40, 1,05	4.20, 5.45

RH : IPHC

- Jeremy Andrea : DR (0.2 ETP).
- Auguste Besson : MCF (0.1 ETP).
- Ziad El Bitar: DR (0.2 ETP).
- Emmanuel Medernach : IR (0.5 ETP).
- Meena Meena : post-doc mixte CMS-FCC (démarrage activité ~full time FCC en juillet 2024).
- Gaëlle Sadowski: PhD (1 ETP).
- +1 Eric Chabert (0.2 ETP) starting in fall 2024 **TOTAL : 3.0 FTE**

RH : CPPM

Nom	Statut	FTE 2024	FTE 2025
Marlon Barbero	Enseignant-Chercheur	0.10	0.10
Farès Djama	Ingénieur-Chercheur	0.35	0.35
Lorenzo Feligioni	Chercheur	0.10	0.00
Emmanuel Monnier	Chercheur	0.05	0.05
Pierre Karst	Ingénieur	0.20	0.20

TOTAL : 0.8 FTE 0.7 FTE

RH:

LAPP

- Marco Delmastro (DR2, Coordinateur LAPP FCC-PED)
  - ✓ 10% en 2024, même en 2025
- Olivier Arnez (CPJ USMB)
  - ✓ 5% en 2024, même en 2025
- Zhibo Wu (postdoc IN2P3 2024-2026)
  - ✓ 50% FCC en 2024 (50% ATLAS), même en 2025
- Hind Taibi (stagiaire M1)
  - ✓ 30% en 2024 (100% mai-aout 2024)
- Stage M1 à pourvoir en 2025
  - ✓ ~4 mois, physique Higgs FCC-ee pour FS et rapport ECFA

TOTAL : 1.2 FTE

Évolution 2025: LPSC

- Contributions simulation + analyses à discuter avec le recrutement CPJ
  (JBdV , CPJ ~ 2×10% + en principe augmentation progressive, FM ~ 5% ?)

- Intérêts contributions techniques :

  → Service mécanique (SERM): participation DRD6 (et 7, 8)
  Structures mécaniques (D. Grondin)
  « Thermal integration » (J. Giraud)
  « micro-cooling » (P. Delebecque)

  → Service électronique: plus générique que FCC
  WADPAT (F. Rarbi, FM)

TOTAL : 0.4 FTE (tbc)

RH:

LPC

Statut	LPC
Permanent	Hervé Chanal (MCF) Romain Madar (CR) Stéphane Monteil (Prof) Magali Magne (IE) David Picard (IE)
Postdoc/CDD	Yingrui Hou (CNRS) Mike Yeresko (ATER)
Doctorant	Tristan Miralles (MESRI) Lars Roehrig (DFG)

LLR

LLR	2024 / 2025
R. Salerno (DR)	10 % / 5 %
V. Boudry (CR)	40 % / 40 %
C. Charlot (DR)	10 % / 10 %
U. Bassler (DR)	15 % / 50 %
J.C. Brient (em)	15 % / 15 %
H. Videau (em)	10 % / 10 %
ANR T-Calo	5 % / 30 %
ANR Calo5D	5 % / 30 %

TOTAL : 1.1 / 1.8 FTE

Demande de ressources RH pour 2026.

APC

CPPM

IJC Lab

IPHC

IP2I

LAPP

LLR

LPC

LPNHE

LPSC

L2IT

Rappel demandes 2024

1) Postdoc mixte IJCLab ATLAS-FCC-Allegro
2) Postdoc mixte IP2I CMS-FCC-Tracking
3) Postdoc mixte APC ATLAS-FCC

DEMANDE RESSOURCES HUMAINES IN2P3 EN 2025

Laboratoire	Permanents	Postdocs	Doctorants
APC	CR : ATLAS/FCC (Higgs/ALLEGRO)		PhD: ATLAS/FCC (Higgs/Allegro)
LPCA		PD: LHCb / FCC	
CPPM		PD: ATLAS / FCC	PhD: ALLEGRO (technique)
IJCLab			
IP2I			
....			

Faire figurer les demandes qui sont dans les priorités du labo (DIALOG), éventuellement inter-classer entre labos. Les autres demandes (non-remontées par le labo) peuvent être affichées en gris Préciser en 2/3 mots le sujet

Doctorant : préciser bourse entière ou demi-bourse (avec qui ?)

- Classement: **CR / APC**

  PD / LPCA

  PhD / CPPM

Demande de ressources RH pour 2026.

- APC
- CPPM
- IJC Lab
- IPHC
- IP2I
- LAPP
- LLR
- LPC
- LPNHE
- LPSC
- L2IT

choix de la date prochain Fcc France (Novembre).

- La semaine du 11 Novembre ?

- Présentiel ou fully On-line ?

- Mercredi 12/11 14-16.30
- Jeudi 13/11 10-12.30 et 14-16-30
- Vendredi 14/11 10-12.30

2026 est une année Fcc France-Italie, qui se tiendrait en France. Que faire ?