Reunion FCC-contacts

Friday Mar 13, 2026, 9:00 AM → 10:30 AM Europe/Paris

9:00 AM → 9:30 AM **News de la stratégie, de FCC / Evolution vers la phase pre-TDR** 30m

Speaker: Gregorio Bernardi (APC Paris CNRS/IN2P3)

9:30 AM → 9:40 AM **Status report Irfu (tbc)** 10m

Speaker: Roy Aleksan (CEA-Saclay)

9:45 AM → 9:55 AM **FCC-France Web** 10m

Speakers: Catherine Biscarat (L2I Toulouse, CNRS/IN2P3, Université de Toulouse), Luc Poggioli (LPNHE Paris, France)

9:55 AM → 10:10 AM **FCC-France-and-more à Marseille en Novembre 2026** 15m

Speaker: Fares DJAMA (CPPM)

10:10 AM → 10:30 AM **Tour de table** 20m

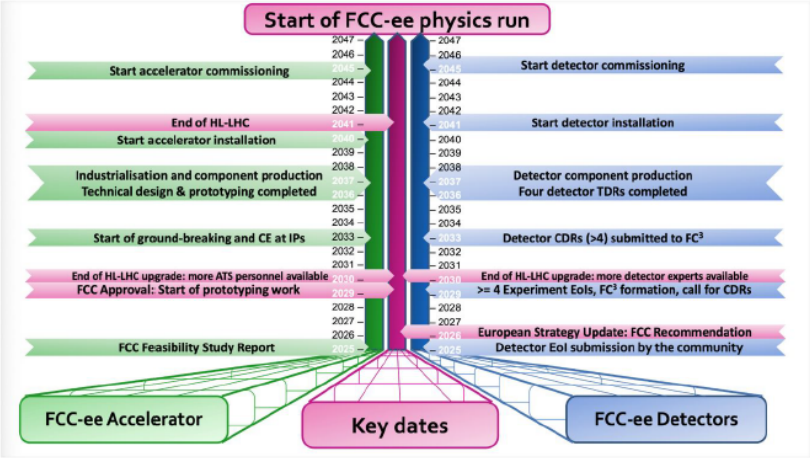
Speakers: Bogdan Malaescu (LPNHE, CNRS), Catherine Biscarat (L2I Toulouse, CNRS/IN2P3, Université de Toulouse), Farès Djama (CPPM), Gaelle Boudoul (IP2I/AICP (CNRS/IN2P3)), Giovanni Marchiori (APC Paris), Jean-Baptiste De Vivie De Regie, Marco Delmastro (LAPP), Nicolas Morange (IJCLab), Roberto Salerno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

Objectives, Milestones, Schedule, PBS, MTP, …

- PED Objectives for the project design phase (all the way to detector CDRs)

FCC Physics, Experiments, Detectors (PED)
Objectives for the project design phase (2026–2033)

The overall timeline for the FCC project from 2025 all the way to the start of the FCC-ee operations is illustrated in the schematic graph below, with the FCC-ee accelerators key major milestones in green on the left and the FCC-ee detectors major milestones in blue on the right.



The (unordered) high-level PED objectives for the project design phase (2026-2033), from the detector design to the theory precision calculations, derive from this timeline. In this document, the emphasis is put on the pre-approval phase (2026-2029), but some indications are given for the post-approval phase (2029-2033).

DETECTORS EOIS AND COLLABORATION FORMING

An overarching milestone for the pillar is to lay the foundations for the conceptual design studies of at least four – preferably five or six – FCC-ee detectors, based on complementary technologies and satisfying the physics requirements listed in the volume 1 of the Feasibility Study Report (FSR). By the time of the project approval (2028-29?), and following an earlier call from the CERN management, detailed expression of interests (EoI's) will be submitted to the FCC Committee (FCCC), which will then study the proposals and converge to a call for four experiment collaborations and four detector conceptual design reports (CDRs). These CDRs would need to be delivered shortly before the start of ground-breaking operations (2033) and would include more reliable cost estimates for the detectors.

MACHINE-DETECTOR INTERFACE

A specificity of FCC-ee is that the final focus part of the collider penetrates deeply inside the detectors, all the way to 2.4 metres from the interaction point, within a 100 mrad cone around the detector axis. The work on the machine-detector interface must therefore quickly be consolidated in particular for the aspects that may affect the detector design itself. By summer 2026, the non-local compensation of the experiment solenoid field will have to be fully understood, and the maximal value for the experiment magnetic field (2T, 2.5T, 3T) during the Z pole operation will be known – with consequences on the dimensions (and therefore the cost) of the detector. The detector integration in the interaction region and the scheme for detector opening and maintenance also need to be urgently attended to. These items may have consequences on the cavern dimensions, on the detector alignment – affecting the precision of the physics measurements – and on the integrity of the final focus system. Therefore, detailed reviews will have to take place in the first half of 2026, with the participation of all relevant stakeholders. A complete study of the effects and mitigation of the beam-induced backgrounds in the detectors will be conducted and delivered prior to the project approval, and referred to in the detector EoI's.

PHYSICS SOFTWARE AND COMPUTING

Both the detector performance optimization and the interaction region consolidation require a complete physics software and analysis toolkit, from the simulation of the beam-induced backgrounds, the detector subsystems and the digitisation of their signals to the analysis of the collision and cosmic events. Lots of progress has been made on this front during the feasibility study, which started to come to fruition at the recent FCC Physics Workshop in January 2026. This effort will have to continue and intensify during the pre-approval phase, and be fully ready in time (2028-29) for the four collaborations to use (and improve) this common software toolkit after the approval. This important milestone represents a major step forward with respect to the previous colliders at CERN and elsewhere, where each experiment had its own software and event data format. Similarly, a computing architecture model common to all experiments will be developed by the time of the project approval.

PHYSICS

Electroweak precision observable measurements envisioned during the Z pole and WW threshold operations come with expected relative statistical uncertainties at the level of 10^{-5} or even 10^{-6}. To get the largest sensitivity to new physics out of FCC-ee, it will be necessary to confirm, with fully implemented algorithms, the conceptual in-situ methods (using the FCC-ee data themselves) that have been devised during the feasibility study to bring experimental systematic uncertainties on these measurements down to the level of the statistical power of the collider. First results are expected towards the end of the pre-approval period. In parallel, the worldwide theory community will gather, with regular schools and workshops, to develop the methods needed to address the related theory challenges, and bring the theory uncertainties to a similar level. Reaching this objective will require much more time, and a global worldwide organisation to train and hire the talents with planned permanent positions, well beyond the sole PED responsibilities.

CENTRE-OF-MASS ENERGY CALIBRATION AND MONOCHROMATISATION

An essential tool for precision measurements, unique to circular colliders, is the ability to measure precisely the centre-of-mass energy and its spread, as well as the possibility to significantly reduce this spread (e.g., for the discovery of how ordinary matter acquires its mass, with monochromatic collisions at $\sqrt{s}$ = 125 GeV). The procedure for centre-of-mass energy calibration and monochromatization will have to be optimised and streamlined in 2026-2027. As recommended by the Council in 2025, the possibility of adding a physics run at $\sqrt{s}$ = 125 GeV to the baseline for the measurement of the electron Yukawa coupling will be fully documented prior to the project approval. In parallel, the physics case, the feasibility, and the schedule implications of this and other possible $\sqrt{s}$ stages will be fully articulated.

DESCOPED FCCee: STAGING and IMPROVEMENTS

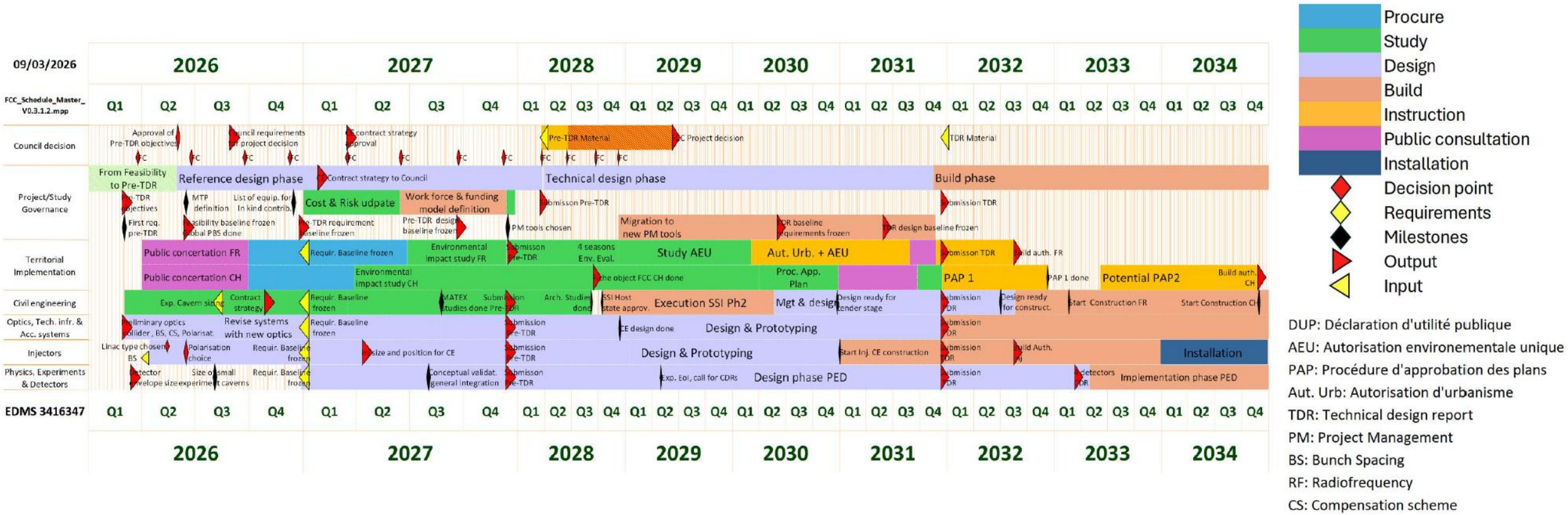
In December 2025, the ESG came with a proposal of a "descoped FCC-ee" if the baseline FCC-ee were found not to be feasible, insisting on the fact that the descoping scenarios would have to be kept reversible (i.e. that staged upgrades should be kept technically feasible), should additional resources become available. A proposal for the best way to implement these staged upgrades and possible improvements to the baseline (in view of still reducing the total FCC-ee cost) will be presented to the Project Leader and the CERN DG early in 2026, for possible inclusion in the baseline FCC-ee project.

EDUCATION, COMMUNICATION, OUT- AND IN-REACH

Finally, starting now and without any specific end date, an ECOI (Education, Communication, Outreach, Inreach) effort will be put in place following the model developed for the LHC experiments and in close contact with the official CERN communication office, with a particular emphasis on introducing Early Career Physicists to the project, communicating among high-energy physicists, and presenting the FCC-ee science and societal benefits to the wider public.

Objectives, Milestones, Schedule, PBS, MTP

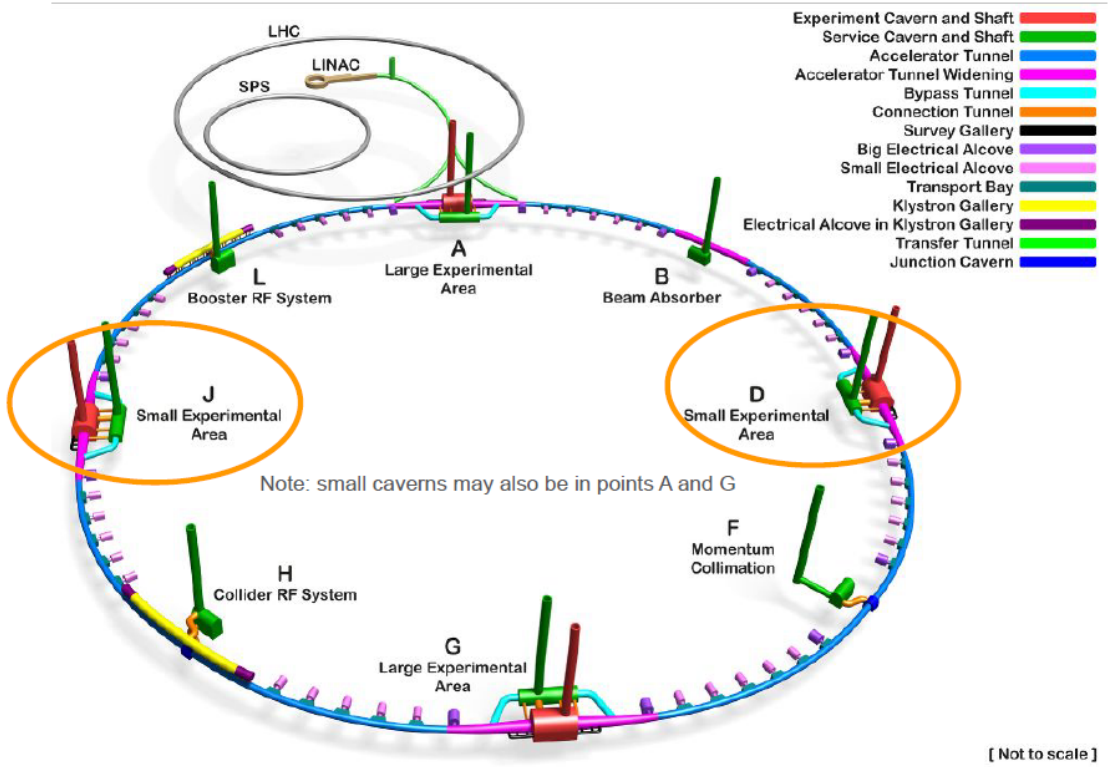
- PED Milestones for 2026-2030, with focus on the pre-approval years (2026-2028)
  - See presentation (in front of all pillar coordinators) here.
    - With contributions from Patrizia Azzi, Manuela Boscolo, Mogens Dam, Brieuc François, Gerardo Ganis, Christophe Grojean, Giovanni Guerrieri, Gautier Hamel de Monchenaut, Jacqueline Keintzel, David Lange, Michelangelo Mangano, Matthew McCullough, Fabrizio Palla, Emmanuel Perez, Marc-André Pleier, Felix Sefkow, Michele Selvaggi, Eric Torrence, Guy Wilkinson, Frank Zimmermann
  - Master Schedule being prepared by the FCC Project Office (simplified version)
    - Under development, but to be shown to the Council end of March

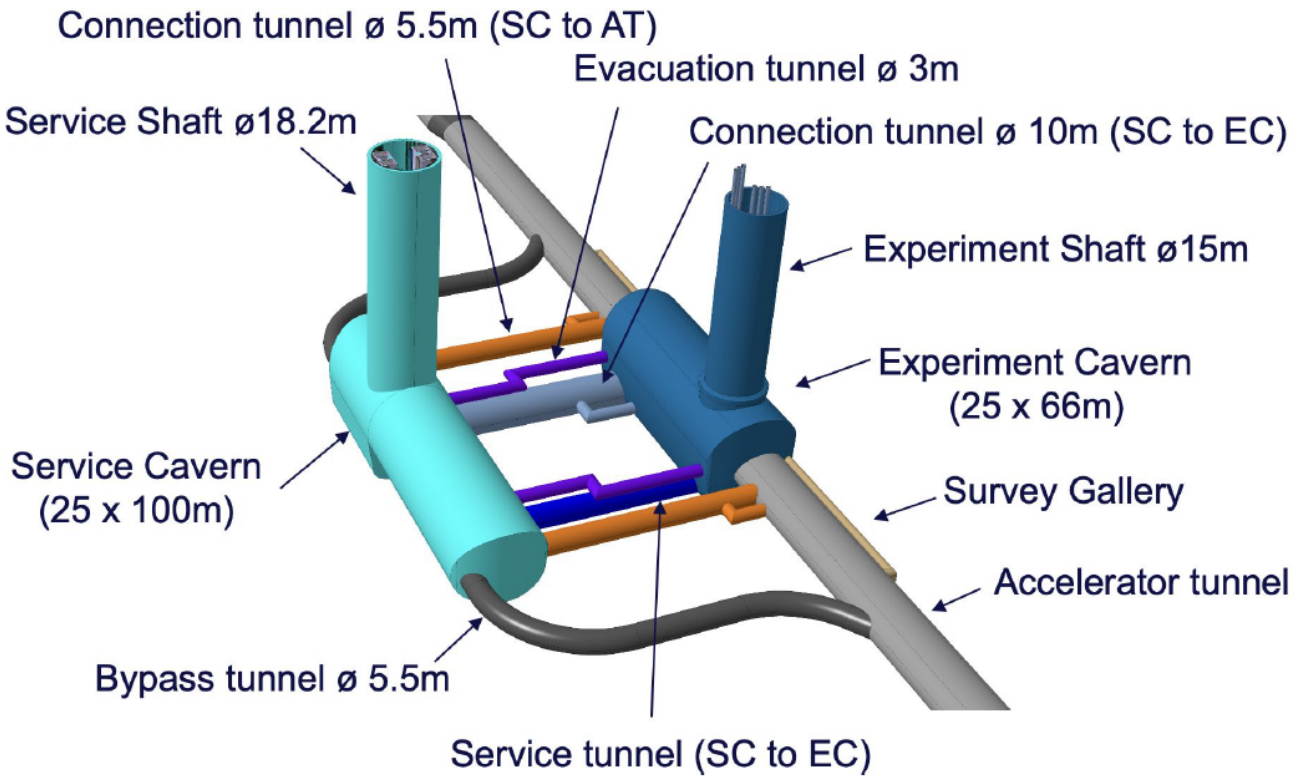


DUP: Déclaration d'utilité publique
AEU: Autorisation environementale unique
PAP: Procédure d'approbation des plans
Aut. Urb: Autorisation d'urbanisme
TDR: Technical design report
PM: Project Management
BS: Bunch Spacing
RF: Radiofrequency
CS: Compensation scheme

Small caverns (+ service caverns)

- Reminder: Two smaller caverns for FCC-hh specialised expts (FCCb & FCC-HI)
  - Diameter 25m instead of 35m, identical length (66m), 20-40 MCHF and 4 months saved





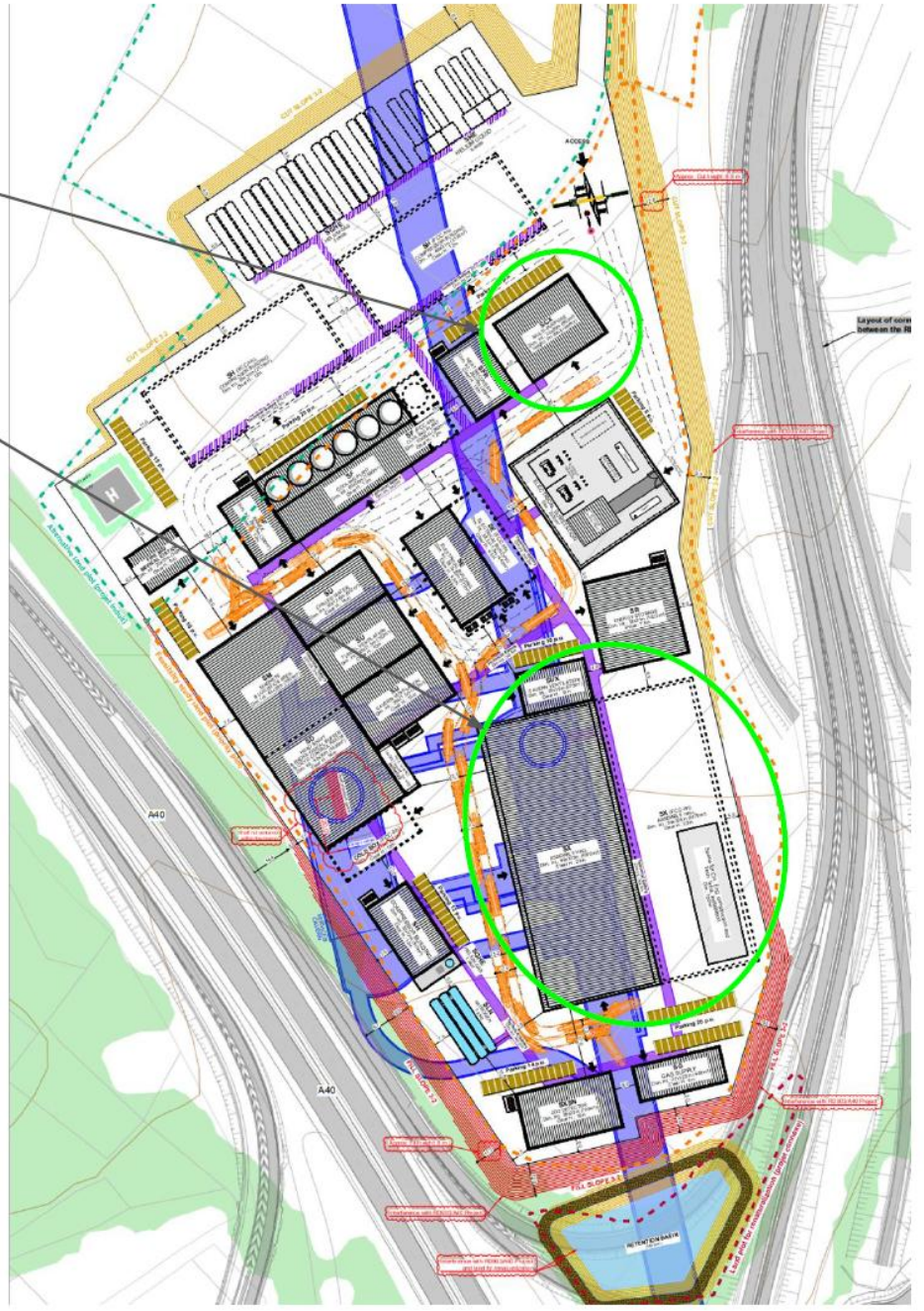
- Mid-term review recommendation R5
  - We would like to see, in the final Feasibility report, more studies that demonstrate that the size of **two "small" caverns** enables a diversified experimental program at FCC-hh.
  - Naturally, we focussed our work on the experimental program of FCC-hh
    - We assumed throughout that there would be no problem for FCC-ee

Small caverns (+ service caverns)

- Conclusions of a meeting held on 27.02.2026 (w/ MDI, DC, CE, Integration, Mec. engineers)
  - For a maintenance of the inner detectors (VTX, LCAL) - hopefully not too often
    - The FFQ cryostat must be first removed longitudinally from the detector
    - The detector must then be moved transversally away from the beam line to be able to
      - Move the endcaps longitudinally away from the barrel
      - Extract the inner detectors for maintenance
    - For a detector of 12m diameter, small caverns (25m diameter) are not wide enough
  - Small cavern diameter ought to be increased **from 25m to 30m**
    - Also requires the cavern to be slightly off axis + the removal of the wall metallic structure
    - This diameter would be adequate for FCCb and FCC-HI (FCC-hh specialised expts)
      - FCCb longitudinal opening scheme to be studied
    - The cost increase would be 5-10 MCHF per small cavern
      - With a time penalty of ~2 months for each of the small caverns
  - To potentially reduce this cost increase with respect to 25m cavern diameter
    - A small-cavern length of 53m (instead of 66m) would be acceptable (tbc)
      - Would lead to a 15% volume increase instead of 45% volume increase
    - A suggestion was made to also reduce the size of the small cavern's service caverns
      - Input from LHCb and ALICE is necessary at this point (experts contacted)
      - Civil Engineering team to estimate the corresponding savings
    - Information escalated to the project coordination – to be followed up technically (ECR) by Olga

Surface buildings

- For example, in PD (Nangy) – all four points similar
  - Offices, control room, meeting in SCX building
  - Detector assembly hall in SX building
    - Dimensions for FCC-ee: L/W/H = 105m x 40m x 23m
    - Doubled for FCC-hh (dashed contour in the figure)
- Question: can it be smaller for FCC-ee?
  - LEP SX building: L/W = 60m x 17m x ?
    - Plus a second similar building for magnet coil assembly (only for L3, all other magnet coils arrived assembled_
  - ATLAS SX building: L/W/H = 84m x 24m x 17m
  - CMS SX building: L/W/H = 143m x 33m x 23.5m
    - Half of which used for magnet coil assembly
  - FCC-ee detector size similar to LEP detector size
- Assume that all FCC-ee coils are assembled on site
  - L/W = 70m x 34m would seem sufficient (?) –
    - More than twice the LEP SX buildings – Height ?
  - Need (urgent) confirmation from our DC experts
    - Olga Beltramello to gather our inputs



Services

- For each of the studied detector concepts, we need to provide our best guess for
  - Powering needs
  - Cryogenic needs
  - Water cooling needs
  - Ventilation needs
  - CO_2 cooling needs (probably none for FCC-ee)
  - Needs for gases
  - Detector size, including manœuvring space
  - Transport and handling needs (overhead cranes, etc.)
  - Computing and communication network need (e.g., additional computing centres)

- A mail will be sent to the relevant contacts of the various DCs
  - As soon as we know the desired form of the answer (units, etc.)
  - Inputs will be compiled by Olga

Experiment magnetic field

- The maximum value of the experiment magnetic field depends on
  - The final optics choice (GHC or LCC) – soon !
  - The compensation scheme (local or non-local) – urgent !
  - The actual parameters of the collider (e.g., vertical emittance) – important !
  - The emittance growth at the IP for the Z pole run (irrelevant at higher energies)
    - And the corresponding luminosity decrease – to be kept negligible
- Values of up to 3T are currently contemplated
- The actual value has impact on
  - The detector design (e.g., overall size) and performance (e.g., momentum resolution)
  - The solenoid design (size, thickness, …)
  - The beam-induced backgrounds in the detector
- There is currently no DRD dedicated to experiment solenoid design
  - Contact has been established with one of the EDC chairs and the EP management
    - Will contact Benoit Cure and Matthias Metnik
  - Paolo Giacomelli approached Lucio Rossi for a possible workshop on the topic
  - We need to move forward with the creation of the Magnet Subsystem WG

FCC Physics, Experiments, Detectors (PED)
Objectives for the project design phase (2026–2033)

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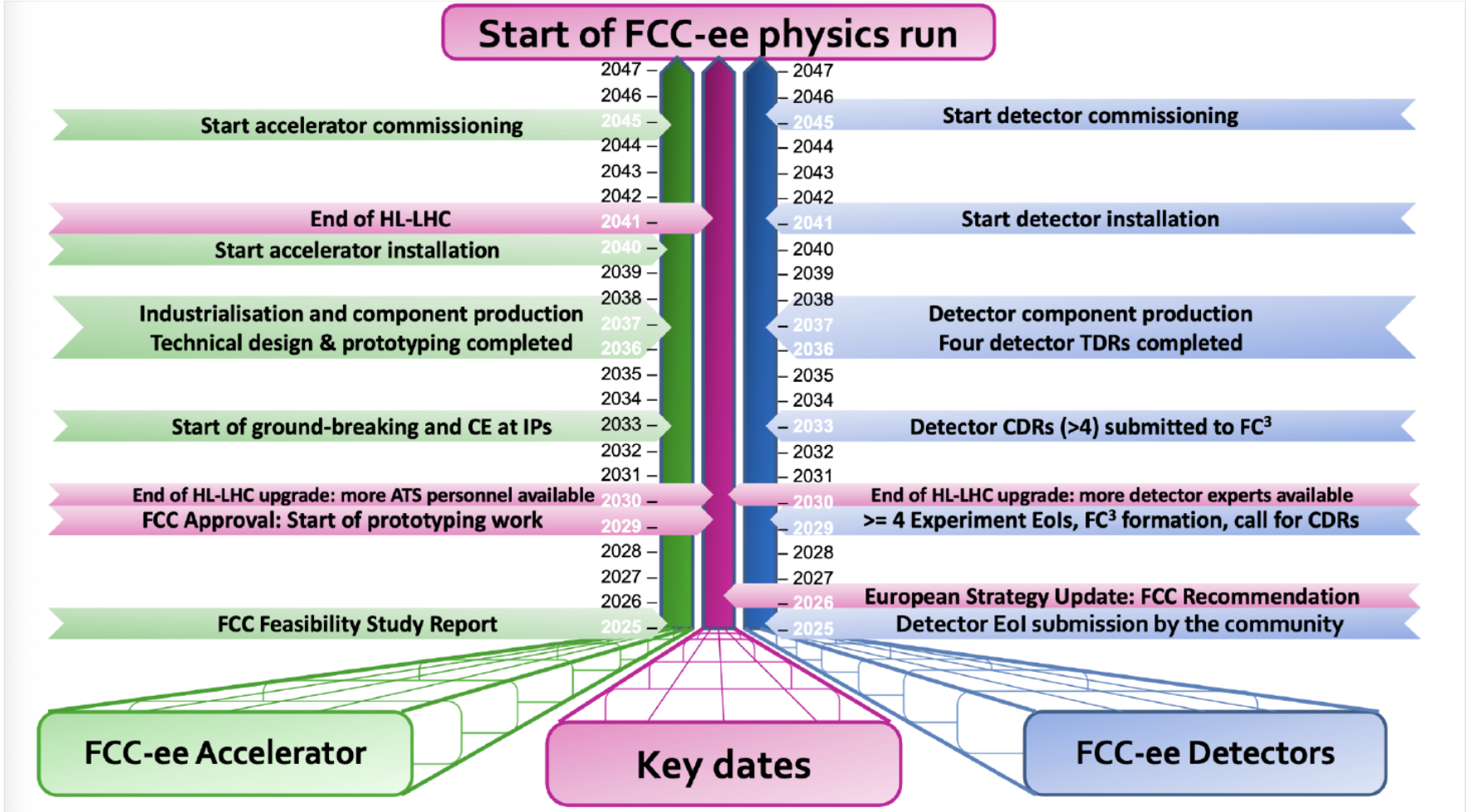
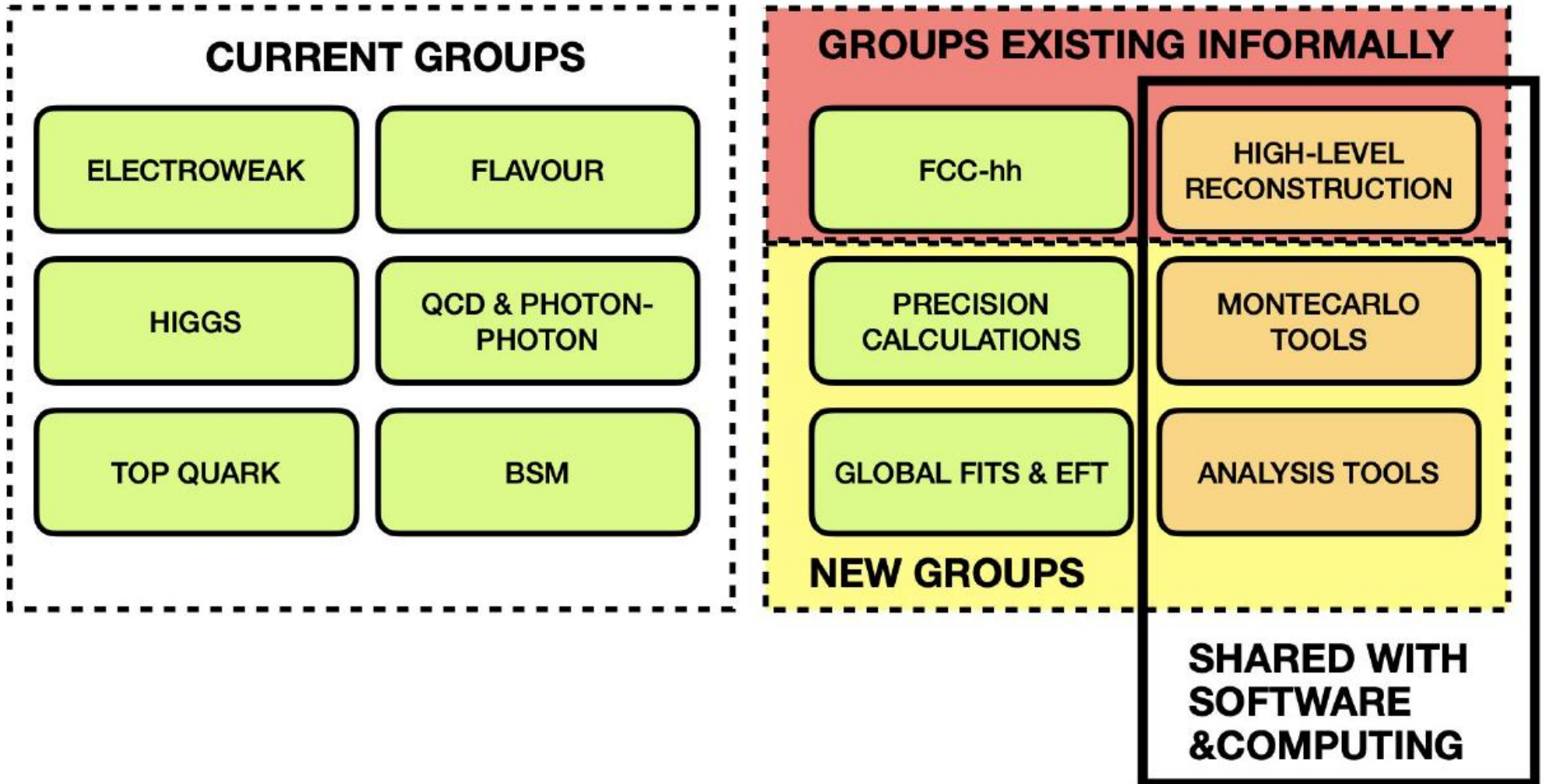


Physics Studies new organization proposal

Jorge, Matthew, Patrizia, David, Michele



Physics WG Conveners Proposal (EXP, TH, *=fem.)

- O(100) names (with duplications) were (self)nominated for the different WGs. Our proposal (42 names):

EW: J. Bendavid (CERN), M. DeFranchis (CERN), J. Eyserman (MIT), M. Riembau (CERN, EPFL), A. Vicini (Milan)

Higgs: A. Li (BNL), M. Del Mastro (LAPP-Annecy), A. Metha (Liverpool), G. Cacciapaglia (LPTHE-Paris), R. Groeber* (UPadova)

Top: X. Zuo (EPFL), C. Schwanenberger (DESY), J. Reuter (DESY), G. Durieux (UCLouvain)

BSM: R. Gonzalez-Suarez* (U.Uppsala), G. Polesello (INFN-PV), S. Renner* (UGlasgow), J. Davighi (UCambridge)

QCD&$\gamma\gamma$: S. Kluth (MPI), A. Badea (UChicago), R. Poncelet (Krakow/CERN), G. Stagnitto (UGenoa)

Flavour: See Flavour Workshop Organization

FCC-hh: S. Williams* (Cambridge), B. Stapf* (CERN), A. Taliercio* (NW), S. Banerjee (Chennai), T. You (KCL)

New and Shared* groups (EXP, TH, *=fem.)

Global Fits: A. Gilbert (LLR-Paris), L. Brenner* (NIKHEF), V. Miralles (UAlacant), L. Mantani (IFIC Valencia)

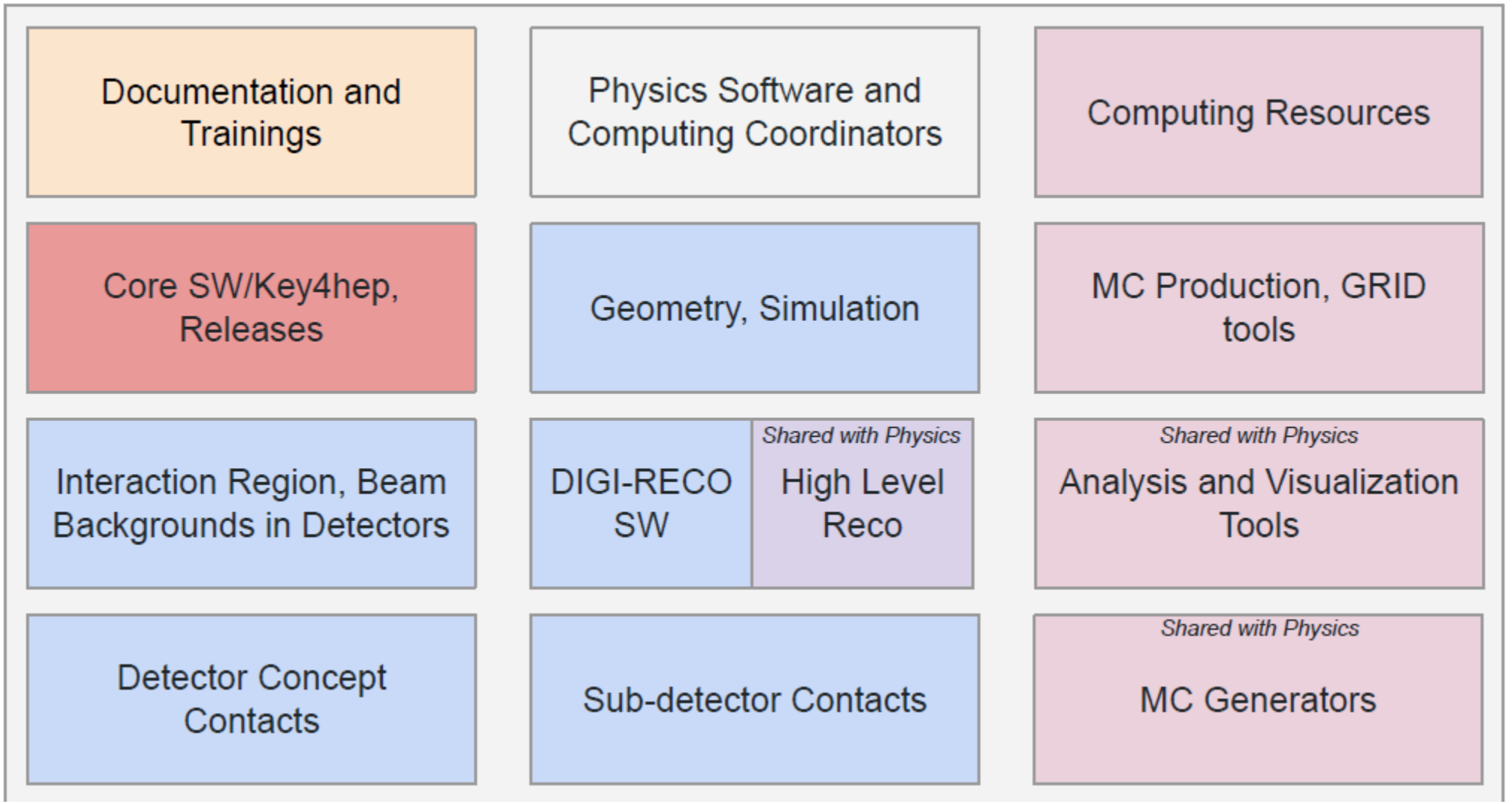
MC Generators: L. Portales (Saclay), S. Battacharya* (SMU), A. Price (Jagiellonian), S.Plaetzer (U.Graz), A. Siódmok (Jagiellonian)

High-Level Reconstruction: D. Garcia* (MIT), L. Hermann* (CERN), A. Zaborowska* (CERN)

Precision Calculations: M. Zaro (UniMi), J. Gluza (Silesia)

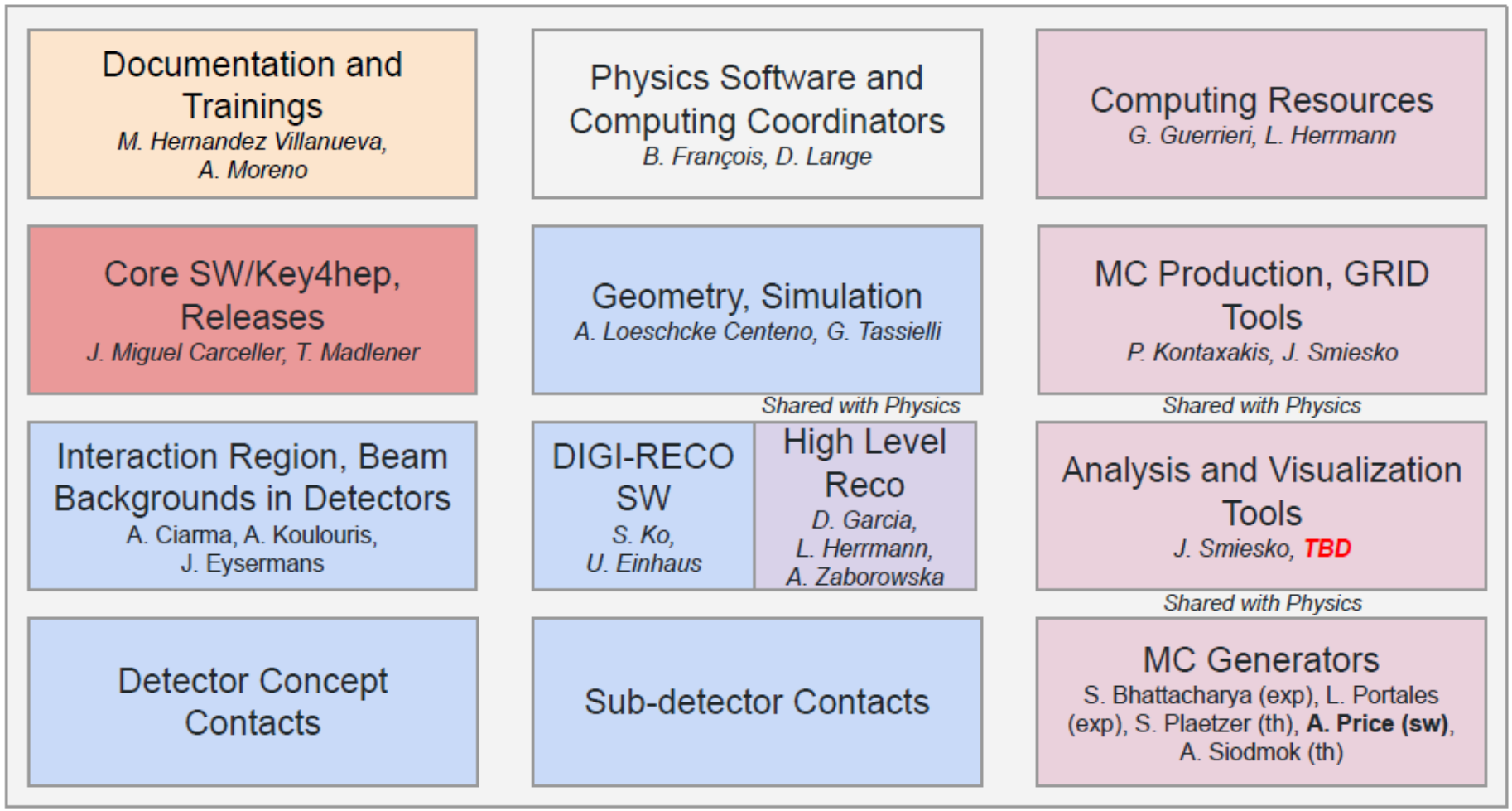
FCC Physics Software And Computing

New organizational structure



Call for conveners

- Received 28 nominations
  - Discussed with all of the nominees
  - Also reached out to suitable candidates that did not nominate, especially for contacts
- 22 people (excluding PSC coordinators and contacts): 9 CERN, 13 non-CERN (4 from America)



Status of (sub-)detector contacts

Detector Concept contacts	CLD	Idea	Allegro	ILD
	Andre Sailer	Lorenzo Pezzotti	Brieuc Francois	Frank Gaede
	Leonhard Reichenbach		Giovanni Marchiori	
			Scott Snyder	

Sub-detector contacts	LumiCal	MDI	Ultra-light VTX and Silicon Wrapper	Straw Tube tracker	Drift Chamber	Noble Liquid ECAL	Crystal dual readout ECAL	Fibre Dual Readout	TileCal	ARC	muRWEL muon system	All CLD sub-systems	All ILD subsystems	More to come...
	TBD	Interaction region, BIB conveners	Armin Ilg	TDB	Gianfranco Tassielli	Giovanni Marchiori	Wonyong Chung	Sanghyun Ko	Archil Durglishvili (tbc)	Alvaro Tolosa Delgado	Mahmoud Ali	TBD, CLD contacts meanwhile	TBD, ILD contacts meanwhile	
						Scott Snyder								
						Erich Varnes (endcap)								

Current Plan for Meetings (organic)

- Full Sim meeting: bi-weekly, general SIM-DIGI-RECO related topics
  - Dedicated sub-system discussions if/when needed
    - E.g. currently having joint Straw Tubes/Drift Chambers chats to maximize synergies
  - High Level Reco chat: weekly informal discussions
- Analysis Tools and Productions: Analysis and Visualization tools, Distributed Computing and MC Productions, bi-weekly
- Computing Resources: Storage, CPU, GPU, virtual organization (including external sites), FCC/IT related matters, Rucio, … Monthly or when needed
- PSC Coordination meeting: monthly, Monday 4 pm? Which Monday?
  - Possibly alternating between blue boxes focus (closer to Detectors) and pink boxes focus (closer to Physics), with everyone welcome each time

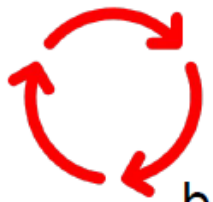
Evolution of Detector Concepts Work Package

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) & PID
- Calorimetry
- Muons
- TDAQ
- Luminometry
- Magnet

Full mandate for the Detector Subsystem subgroup

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

- Allegro
- CLD
- IDEA
- ILD
- …

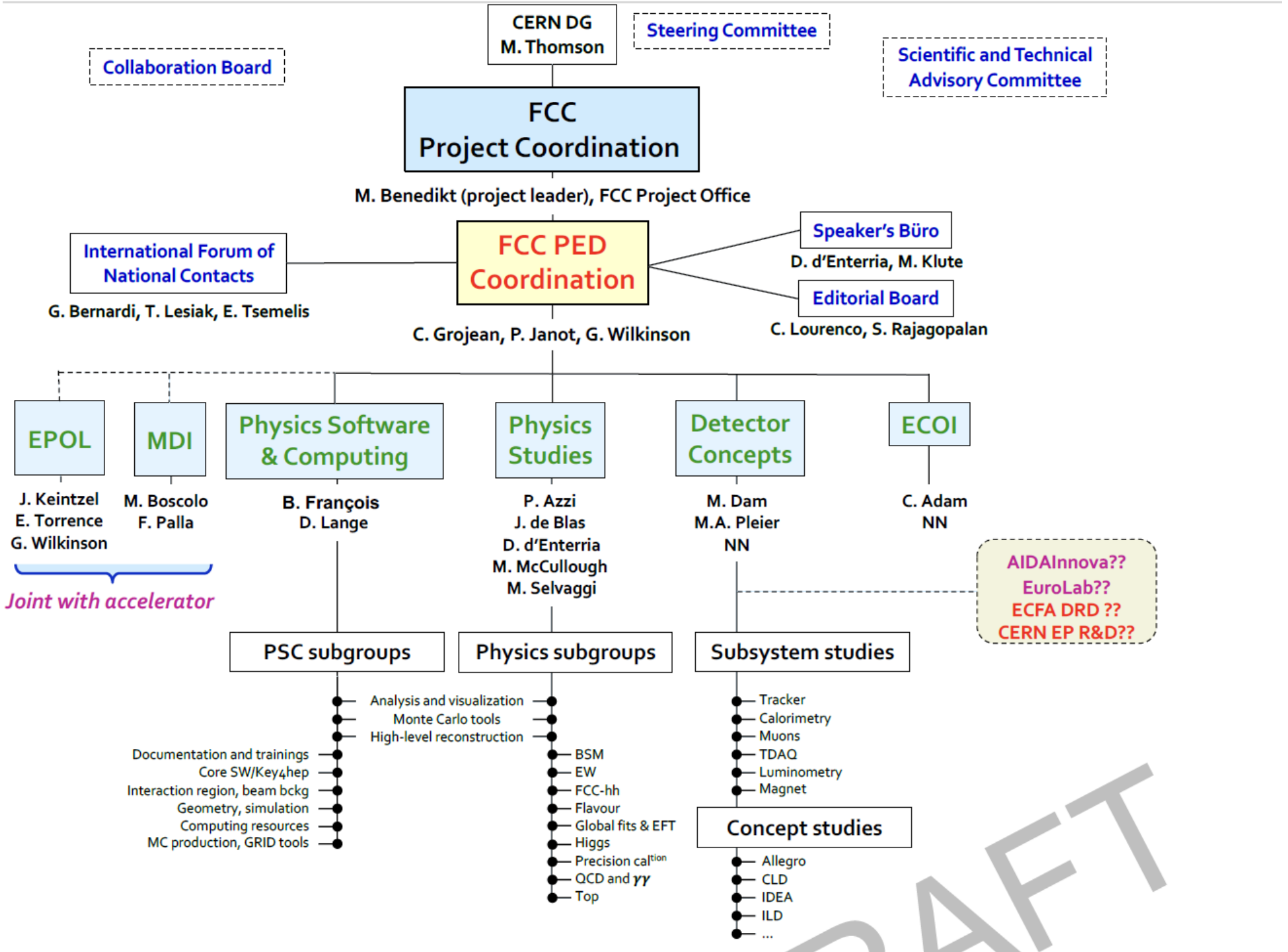
Full mandate for the Detector Concept Study subgroup

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

Subgroup convener selection/nomination status

- Status of Appointment of convenors for subsystem subgroups:
  - Tracker & PID: **Valentina Cairo (CERN) & George Iakovidis (BNL)**
  - TDAQ: **Thorsten Wengler (CERN) & Zeynep Demiragli (BU)**
  - Calorimetry: **Marco Lucchini (Milano), Lucia Masetti (Mainz), Nicolas Morange (IJCLAB), Hwidong Yoo (Seoul)**
  - Muons: call for nominations closed last week, gave 25 nominations for 9 individuals
  - Luminometry: need community building
  - Magnet: need community building

- Concept Study Groups
  - Allegro: Martin Aleksa
  - CLD: Jinlong Zhang
  - IDEA: Paolo Giacomelli
  - ILD: Ties Behnke
  - “#5”: TBD


CERN DG
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D. d'Enterria
M. McCullough
M. Selvaggi
Detector Concepts
M. Dam
M.A. Pleier
NN
ECOI
C. Adam
NN
AIDAInnova??
EuroLab??
ECFA DRD ??
CERN EP R&D??
PSC subgroups
Physics subgroups
Subsystem studies
Analysis and visualization
Monte Carlo tools
High-level reconstruction
Documentation and trainings
Core SW/Key4hep
Interaction region, beam bckg
Geometry, simulation
Computing resources
MC production, GRID tools
BSM
EW
FCC-hh
Flavour
Global fits & EFT
Higgs
Precision cal[tion]
QCD and γγ
Top
Tracker
Calorimetry
Muons
TDAQ
Luminometry
Magnet
Concept studies
Allegro
CLD
IDEA
ILD
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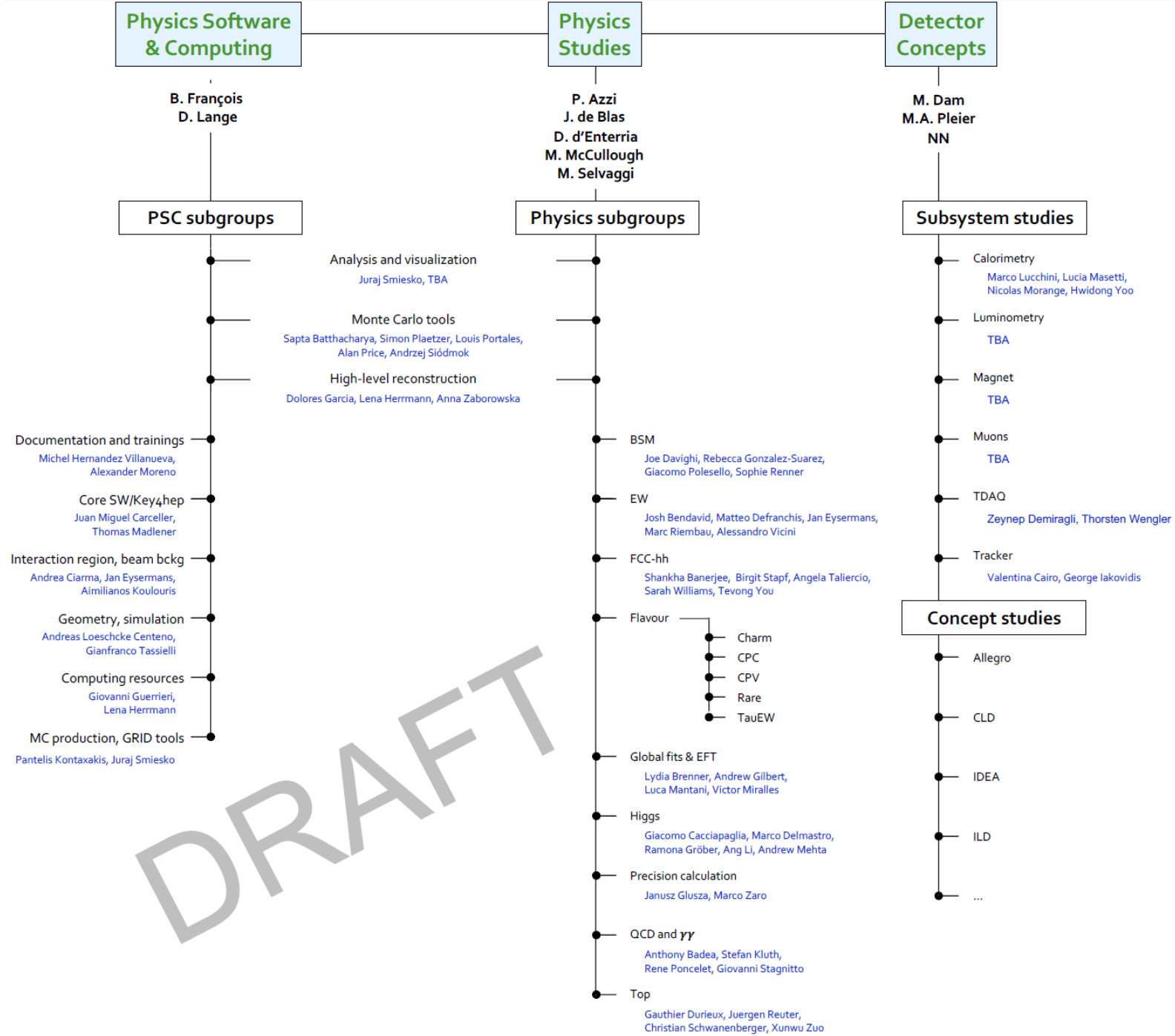
Physics Software & Computing
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M. McCullough
M. Selvaggi
M. Dam
M.A. Pleier
NN
PSC subgroups
Physics subgroups
Subsystem studies
Analysis and visualization
Juraj Smiesko, TBA
Monte Carlo tools
Sapta Batthacharya, Simon Plaetzer, Louis Portales, Alan Price, Andrzej Siódmok
High-level reconstruction
Dolores Garcia, Lena Herrmann, Anna Zaborowska
Documentation and trainings
Michel Hernandez Villanueva, Alexander Moreno
Core SW/Key4hep
Juan Miguel Carceller, Thomas Madlener
Interaction region, beam bckg
Andrea Ciarma, Jan Eysermans, Aimilianos Koulouris
Geometry, simulation
Andreas Loeschcke Centeno, Gianfranco Tassielli
Computing resources
Giovanni Guerrieri, Lena Herrmann
MC production, GRID tools
Pantelis Kontaxakis, Juraj Smiesko
BSM
Joe Davighi, Rebecca Gonzalez-Suarez, Giacomo Polesello, Sophie Renner
EW
Josh Bendavid, Matteo Defranchis, Jan Eysermans, Marc Riembau, Alessandro Vicini
FCC-hh
Shankha Banerjee, Birgit Stapf, Angela Taliercio, Sarah Williams, Tevong You
Flavour
Charm
CPC
CPV
Rare
TauEW
Global fits & EFT
Lydia Brenner, Andrew Gilbert, Luca Mantani, Victor Miralles
Higgs
Giacomo Cacciapaglia, Marco Delmastro, Ramona Gröber, Ang Li, Andrew Mehta
Precision calculation
Janusz Glusza, Marco Zaro
QCD and γγ
Anthony Badea, Stefan Kluth, Rene Poncelet, Giovanni Stagnitto
Top
Gauthier Durieux, Juergen Reuter, Christian Schwanenberger, Xunwu Zuo
Calorimetry
Marco Lucchini, Lucia Masetti, Nicolas Morange, Hwidong Yoo
Luminometry
TBA
Magnet
TBA
Muons
TBA
TDAQ
Zeynep Demiragli, Thorsten Wengler
Tracker
Valentina Cairo, George Iakovidis
Concept studies
Allegro
CLD
IDEA
ILD
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DRAFT

9th FCC Physics Workshop: Munich, Jan. 26-30, 2026

indico agenda: https://indico.cern.ch/event/1588696/

	Monday 26.01	Tuesday 27.01	Wednesday 28.01	Thursday 29.01	Friday 30.01	
8:30-9:00						8:30-9:00
9:00-9:30	-- Satelite meeting -- ECR meeting	-- Parallel Sessions -- 1. Physics (general) 2. EPOL	-- Parallel Sessions -- 1. Jt Software, Detectors and Physics (local reconstruction) 2. MDI (IR layout and beam dynamics)	-- Parallel Sessions -- Jt SW & Physiscs & Detectors (global reconstruction)	-- Summaries/Highlights --	9:00-9:30
9:30-10:00						9:30-10:00
10:00-10:30						10:00-10:30
10:30-11:00		Coffee break	Coffee break	Coffee break	Coffee break	10:30-11:00
11:00-11:30		-- Parallel Sessions -- 1. Physics. (Higgs/EW) 2. EPOL	-- Parallel Sessions -- 1. Physics (BSM) 2. Detectors (detector concepts, large scale structures and cryostats)	-- Parallel Sessions -- 1. Physics (FCC-hh) 2. Jt MDI & SW & Detectors (detector backgrounds, beam backgrounds)	-- Summaries/Highlights --	11:00-11:30
11:30-12:00						11:30-12:00
12:00-12:30						12:00-12:30
12:30-13:00	Lunch	Lunch	Lunch	Lunch	Lunch	12:30-13:00
13:00-13:30						13:00-13:30
13:30-14:00						13:30-14:00
14:00-14:30	-- General FCC Meeting --	-- Parallel Sessions -- 1. Physics (Higgs/EW) 2. MDI (mechanics and integration)	-- Parallel Sessions -- 1. Physics (QCD+Flavour) 2. Software and Computing (Key4HEP, LEP@E4H, resources)	-- Parallel Sessions -- 1. Jt SW & Physics (analysis) 2. Detectors (calorimetry, magnets)	-- Satelite meeting -- TBC	14:00-14:30
14:30-15:00						
15:00-15:30						14:00-15:30
15:30-16:00						15:30-16:00
16:00-16:30	Coffee break	Coffee break	Coffee break	Coffee break	Coffee break	16:00-16:30
16:30-17:00	-- PED Plenary --	-- Parallel Sessions -- 1. Physics (BSM) 1. Jt Detectors & SW (simulation, digitisation)	-- Parallel Sessions -- 1. Physics (QCD+Flavour) 2. Jt Detectors & MDI (detector integration, beam pipe, and IR)	-- Parallel Sessions -- 1. Detectors (tracking and vertexing) 2. Physics (higher order calculations)	-- Satelite meeting -- TBC	16:30-17:00
17:00-17:30						17:00-17:30
17:30-18:00						17:30-18:00
18:00-18:30						18:00-18:30
18:30-19:00	Welcome reception	IFNC session				18:30-19:00
19:00-19:30						19:00-19:30
19:30-20:00			Workshop Dinner			19:30-20:00
20:00-20:30						20:00-20:30

Day	Monday 8 Feb	Tuesday 9 June					Wednesday 10 June						Thursday 11 June					Friday 12 June	Day
Time	**Plenary**						**Plenary**											**Plenary**	**Time**
Room	Auditorium (F2044) (490 p.)	Pieni juhlasali (F4050) (200 p.)	Tekla Hultin (F3003) (130 p.)	F3017 (64 p.)	F3005 (50 p.)	F3020 (48 p.)	Auditorium (F2044) (490 p.)	Pieni juhlasali (F4050) (200 p.)	Tekla Hultin (F3003) (130 p.)	F3017 (64 p.)	F3005 (50 p.)	F3020 (48 p.)	Pieni juhlasali (F4050) (200 p.)	Tekla Hultin (F3003) (130 p.)	F3017 (64 p.)	F3005 (50 p.)	F3020 (48 p.)	Auditorium (F2044) (490 p.)	**Room**
08:30-09:00	Opening session	PED 1 Physics studies	FCC-ee optics design	Magnets	Electricity & Energy Management	IRIS EB 1		PED 3 PSC	Collective effects	Magnet support & alignment	Integration	Industry Day	PED 6 Physics studies	Injector	injectors & extraction systems	MDI 2	Territorial dialogogue	Summaries	08:30-09:00
09:00-09:30																			09:00-09:30
09:30-10:00																			09:30-10:00
10:00-10:30		Coffee Break					Coffee Break						Coffee beak					Coffee break	10:00-10:30
10:30-11:00	Coffee break	PED 2 Detectors	Optics correction	Vaccum	RF Points and Cryogenics	IRIS EB 2		PED 4 Detectors	Operation and Performance	Powering	Cooling & ventilation	Industry Day	PED 7 Dectectors	Booster overview	Beam intercepting devices	Safety	SRF Technology 2	Summaries	10:30-11:00
11:00-11:30	Physics Keynote																		11:00-11:30
11:30-12:00																			11:30-12:00
12:00-12:30	FCC Status	Lunch break					Lunch break						Lunch break					sing remarks	12:00-12:30
12:30-13:00	Lunch break																		12:30-13:00
13:00-13:30																			13:00-13:30
13:30-14:00		Scheduling, Planning and Resources	FCC-ee injector overview	FCC Baseline (SRF)	MDI 1	IRIS WP and alignment 1	Reserve	PED 5 Joint session PSC & Physics	Civil Engeineering and MATEX			Industry Day	PED 8 Joint session PSC & Detectors	h & High-field m	Beam instrumentation	Geodesy, Transport & Robotics	Scientific Advisory Committee		13:30-14:00
14:00-14:30	Overview by FCC coordinators																		14:00-14:30
14:30-15:00																			14:30-15:00
15:00-15:30		Coffee Break					Coffee Break												15:00-15:30
15:30-16:00	Coffee break	Systems Engineering and Project-wide integration	Machine-Specific Designs and R&D Progress	SRF Technology 1	EPOL 1	IRIS WP and alignment 2	Nordic–Baltic Engagement in Large-Scale Research Projects						SRF Technology 3	Environment	Machine protection & Availability	EPOL 2			15:30-16:00
16:00-16:30	PED plenary																		16:00-16:30
16:30-17:00																			16:30-17:00
17:00-17:30		Poster session				Public Event Think Corner													17:00-17:30
17:30-18:00																			17:30-18:00
18:00-18:30		Early Career Researchers	Collaboration Board																18:00-18:30
18:30-19:00																			18:30-19:00
19:00-19:30																			19:00-19:30
19:30-20:00	Welcome reception						Conference dinner												19:30-20:00
20:00-20:30																			20:00-20:30
20:30-21:00																			20:30-21:00
21:00-22:00																			21:00-21:30
																			21:30 -22:30

PED @ FCC 2026
2 Physics Studies
3 Detectors
1 Software and Computing
1 Jt PSC & Physics
1 Jt PSC & Detectors
2 MDI
2 EPOL

PED @ FCC 2025 Vienna
2 Physics case and Theory calculations
3 Detector concepts
1 Software and Computing
2 Physics Performance and Detector Requirements
2 MDI
2 EPOL

We'll try to get larger rooms

Coming events and workshops of interest

- Council meeting, CERN, 24-28 March [presentation of FCC structure/objectives]
- S(T)AC virtual meeting, 15 or 16 April (tbc)
- EP R&D Day, 29 April, Globe of Science and Innovation, register here
- Tracker and PID workshop, BNL, 5-8 May, register here
- Restricted Council meeting, Budapest, 22 May [adoption of the Updated Strategy]
- FCC Week, Helsinki, 8-12 June, register here
- Flavour Workshop, 2nd event: CERN, 16-19 June, register here
- Council meeting, CERN, 16-20 June [approval of FCC structure/objectives]
- BNL/CERN school on physics at future colliders, CERN, 27 Aug-4 Sept, see here
- Workshop on Physics at FCC injector, ~2nd week of October (tbc)
- FCC Physics Workshop, beg. 2027, exact dates and location to be discussed

Next FCC-contacts meetings

19/1 Lyon

Wedn 9-10.30	21/1 : Conveners
Friday 9-10.30	13/2 : Web
Friday 9-10.30	13/3 : FCC-France+more
Friday 9-10.30	10/4 : Progress for FCC week (1)
Friday 9-10.30	29/5 : Progress for FCC week (2)

26- 30/1 Munich

8-12/6 : Helsinki (meeting in-person during the fcc week)

Monday 9-12.30 **July 6** Jamboree

Friday 9-10.30 17/ 7 : FCC Structure evolution

Summer break

Friday 9-10.30	18/ 9 :
Friday 9-10.30	16/10 :
Friday 9-10.30	13/11 :
Friday 9-10.30	11/12 :

25- 27/11 Marseille / FCC-France and more

Master Projet	Laboratoire	Origine Crédits	Montant B - Fournitures et équipements scientifiques, valorisation	Montant C - Missions, déplacements, colloques et communication	Montant D - Informatique	Montant G - Subvention	Montant total (calcul automatique)	Commentaire	Porteur du projet de l'unité
							- €		
FCC - PED	APC	FEI		3 000,00 €	14		3 000,00 €		Gregorio Bernardi
FCC - PED	APC	FEI		11 000,00 €			11 000,00 €		Gregorio Bernardi
FCC - PED	CPPM	FEI		2 000,00 €	6		2 000,00 €		Fares Djama
FCC - PED	CPPM	FEI		4 000,00 €		3 000,00 €	7 000,00 €	3k€ pour workshop FCC-FR	Fares Djama
FCC - PED	IJCLab	FEI		2 000,00 €	6		2 000,00 €		Nicolas Morange
FCC - PED	IJCLab	FEI		4 000,00 €			4 000,00 €		Nicolas Morange
FCC - PED	IP2I Lyon	FEI		3 000,00 €	9		3 000,00 €		Gaelle Boudoul
FCC - PED	IP2I Lyon	FEI		6 000,00 €			6 000,00 €		Gaelle Boudoul
FCC - PED	IPHC	FEI		3 000,00 €	9		3 000,00 €		Jeremy Andrea
FCC - PED	IPHC	FEI		6 000,00 €			6 000,00 €		Jeremy Andrea
FCC - PED	LAPP	FEI		3 000,00 €	9		3 000,00 €		Marco Delmastro
FCC - PED	LAPP	FEI		6 000,00 €			6 000,00 €		Marco Delmastro
FCC - PED	LLR	FEI		3 000,00 €	9		3 000,00 €		Vincent Boudry
FCC - PED	LLR	FEI		6 000,00 €			6 000,00 €		Vincent Boudry
FCC - PED	LPCA	FEI		2 000,00 €	6		2 000,00 €		Stéphane Monteil
FCC - PED	LPCA	FEI		4 000,00 €			4 000,00 €		Stéphane Monteil
FCC - PED	LPNHE	FEI		2 000,00 €	6		2 000,00 €		Bogdan Malaescu
FCC - PED	LPNHE	FEI		4 000,00 €			4 000,00 €		Bogdan Malaescu
FCC - PED	LPSC	FEI		2 000,00 €	6		2 000,00 €		Jean-Baptiste de Vivie de Régie
FCC - PED	LPSC	FEI		4 000,00 €			4 000,00 €		Jean-Baptiste de Vivie de Régie

COUT VOYAGE	MUNICH Phys wkshop 1300	HELSINKI FCC-week 2000	FCC-France CPPM 500	FCC-meet CERN 300	other ? FCC-FR 0	TOTAL (kE) TOT	ASKING (kE) 2026
APC+FCC-FR	3900	6000	2500	1500	5000	18,9	19
CPPM	1300	2000	1000	1500	0	5,8	6
IJC Lab	2600	4000	1000	0	0	7,6	8
IPHC	2600	2000	2000	2400	0	9,0	9
IP2I	3900	6000	3500	300	0	13,7	14
LAPP	2600	4000	1500	600	0	8,7	9
LLR	2600	4000	1500	1500	0	9,6	10
LPCA	2600	2000	1000	2400	2000	10,0	10
LPNHE	2600	2000	1000	300	0	5,9	6
LPSC	1300	0	1000	1200	0	3,5	4
L2IT	0	0	0	0	0	0,0	0
TOTAL-2026	26000	32000	16500	12000	7000	92,7	93

NOTIFICATION FCC 2026

Current Status of FCC in the Grey book

Laboratoire de Physique Nucléaire et de Hautes Energies	Centre National de la Recherche Scientifique	Paris	France	(TL) MALAESCU, BOGDAN (DTL) CALDERINI, GIOVANNI
Université Clermont Auvergne		Clermont-Ferrand	France	(TL) MONTEIL, STEPHANE (DTL) MADAR, ROMAIN JACQUES
Institut Pluridisciplinaire Hubert Curien	Centre National de la Recherche Scientifique	Strasbourg	France	(TL) EL BITAR, ZIAD (DTL) GOFFE, MATHIEU
Laboratoire Leprince-Ringuet	Centre National de la Recherche Scientifique	Palaiseau	France	(TL) BOUDRY, VINCENT
Laboratoire APC - Astroparticules et Cosmologie	Centre National de la Recherche Scientifique	Paris	France	(TL) BERNARDI, GREGORIO (DTL) MARCHIORI, GIOVANNI
Institut de Physique des 2 Infinis de Lyon	Centre National de la Recherche Scientifique	Villeurbanne	France	(TL) BOUDOUL, GAELLE (DTL) GASCON-SHOTKIN, SUSAN MARY
LAPP-Laboratoire d'Annecy de Physique des Particules	Centre National de la Recherche Scientifique	Annecy-Le-Vieux	France	(TL) LAMANNA, GIOVANNI (DTL) BRUNETTI, LAURENT

6th FCC France & Friends Workshop,

Marseille, 25-27 Novembre 2026

FCC France

Physics Studies

Présidents de session: Bogdan MALAESCU (LPNHE, Paris, FRANCE), Jean-Baptiste De Vivie De Regie

16:45 **New developments for the FCC-ee Physics program**
Orateur: Michele Selvaggi (CERN)
FCC-France-Physics...

17:10 **QCD studies with jets for FCC-ee**
Orateur: Line Delagrange (LPNHE, Paris, France)
QCDwithJets@FCC...

17:28 **Improvements in ZH cross section measurements**
Orateur: M. Tom FOURNIER (APC Paris CNRS/IN2P3)
ZH_improvement_F...

17:46 **Precision measurements of Higgs branching ratios**
Orateur: Alexis Maloizel (APC, Paris)
FCC_DRD_France_N...

18:04 **Heavy Flavour recent results**
Orateur: Stephane Monteil (Laboratoire de Physique de Clermont - UCA/IN2P3)
FCC_FlavoursWS_s...

18:22 **Ultra granular calorimeter and flavour physics**
Orateur: Jean-Claude Brient (LLR)
FCC flavor physics ...

18:40 **Physics prospects for FCC-hh**
Orateur: Michele Selvaggi (CERN)
FCChh_fccfrance_v...

5 DRD Tracking

Présidents de session: Didier Contardo, Gaelle Boudoul (IP2I/AICP (CNRS/IN2P3))

09:00 **R&D CMOS (zoom)**
Orateur: auguste besson (Institut Pluridisciplinaire Hubert Curien)
FCCFrance_RD_CM...

09:20 **FCC-Seed concept (zoom)**
Orateur: jeremy andrea (IPHC)
FCC-SEED_FCCFran...

09:40 **Manta Project in DRD3**
Orateurs: Didier Contardo (IN2P3/CNRS), Didier Contardo
FCC_France_MANT...

10:00 **CMOS & timing**
Orateur: Philippe Schwemling (Université Paris Cité and CEA/Irfu/DPhP)
FCC_261125.pdf

10:20 **TPC & Ion Back Flow**
Orateurs: Paul Colas (CEA/DAPNIA Saclay), Serguei Ganjour (CEA/Saclay/IRFU/SPP)
Recent activities on...

0 coffee break

5 DRD Calorimetry

Présidents de session: Fares DJAMA (CPPM), Vincent Boudry (Laboratoire Leprince-Ringuet, CNRS/IN2P

11:00 **R&D High Granularly ECal**
Orateur: JEROME NANNI (LLR-CNRS-IN2P3)
FCC_DRD_Worksho...

11:20 **TSDHCAL (Zoom)**
Orateurs: Imad Laktineh ([UNIV CLAUDE BERNARD]UMR5822), imad laktineh (in2p3-ucbl)
Laktineh-FCCeeFra... Laktineh-FCCeeFra...

11:40 **ALLEGRO**
Orateur: Zhibo Wu
FCCFrance2025_AL...

12:05 **Grainita**
Orateurs: Mlle Yingrui Hou, Yingrui Hou (LPC Clermont)
GRAINITA_FCC_DR...

12:30 **MODOP - MaxICC**
Orateur: Suzanne GASCON-SHOTKIN (IP2I Lyon/Université Claude Bernard Lyon 1)
SuzanneMAXIOCM...

5:15 Other DRD's

Président de session: Suzanne GASCON-SHOTKIN (IP2I Lyon/Université Claude Bernard Lyon

14:15 **The CALOROC family**
Orateur: Christophe de LA TAILLE (OMEGA)
CdLT_FCC_27nov20...

14:35 **DRD7 activity overview (zoom)**
Orateur: Marlon BARBERO (CPPM)
DRD7activities.pdf

14:55 **Summary 1st FCC-ee TDAQ Workshop**
Orateur: Vincent Boudry (Laboratoire Leprince-Ringuet, CNRS/IN2P3, École polytechr
2025-11-27@FCC-F...

5:30 FCC Software and Analysis

Président de session: Ziad EL BITAR (IPHC)

15:15 **Progress on particle flow**
Orateur: Giovanni Marchiori (APC Paris)
2025.11.27 - Particl...

15:40 **Combined talk : Digitization for tracker/vertexing full simulation . Background**
Orateurs: Gaelle Boudoul (IP2I/AICP (CNRS/IN2P3)), Jessy DANIEL (IP2I, groupe
FCCFrance_Nov27_...

16:15 **APRIL Particle Flow Algorithm (Zoom)**
Orateur: Tanguy PASQUIER (IP2I, Univ Lyon 1)
FCC_France_2025_...

7:00 Coffee break

8:45 Participations Françaises aux futurs detector concepts

Présidents de session: Didier Contardo (IN2P3/CNRS), Gregorio Bernardi (APC Paris CNRS

17:00 **Introduction**
Orateurs: Gregorio BERNARDI (APC Paris, CNRS/IN2P3), Gregorio Bernardi (AP

17:20 **ALLEGRO**
Orateur: Fares DJAMA (CPPM)
ALLEGRO_Djama.pdf

17:30 **CLD**
Orateur: jeremy andrea (IPHC)
CLD_FCCFrance25...

17:40 **IDEA**
Orateur: Suzanne GASCON-SHOTKIN (IP2I Lyon/Université Claude Bernard Lyon 1
SuzanneIDEA_FCC_...

17:50 **ILD**
Orateur: Vincent Boudry (Laboratoire Leprince-Ringuet, CNRS/IN2P3, École polytechr
2025-11-27@FCC-...

18:00 **Discussion**
Orateurs: Didier Contardo (IN2P3/CNRS), Didier Contardo