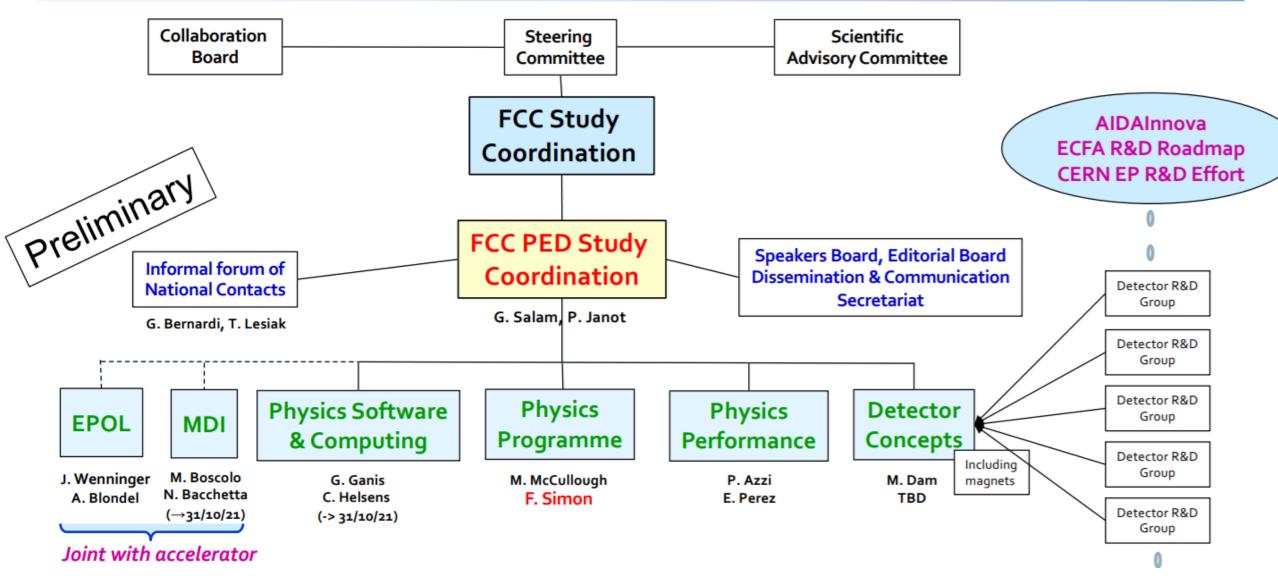
FCC-contacts – September 29th

- Meeting FCC-contacts avant Noël

Lundi 25 Octobre 9H15 Mercredi 17 Novembre 9H15 Mercredi 15 Décembre 9H15

- News from FCC coordination meeting
- Agenda FCC-France
- Demandes Dialog

The PED Pillar Organisation - preliminary



- Once all names are known, there will be a "global fit" to ensure the geographical balance
 - → Deemed essential to get the support from the various Member States to the Project



FCC feasibility study organization - preliminary

FCC Study	Study support and coordination								
Study leader	study/collaboration secretariat		study support unit	ort unit EU projects		collaboration building E. Tsesmelis		Communications J. Gillies (local com.	
Physics, experiments and detectors P. Janot, G. Salam		Accelerators T. Raubenheimer, F. Zimmermann	Techn. coordination techn. infrastructure K. Hanke		Host State process and civil engineerin T. Watson (1 Nov. '21	ng	Organisation and financing models P. Collier (interim)		
physics programme M. McCullough, F. Simon		ee design K. Oide, A. Chance	Electricity distribution JP. Burnet		administrative process F. Eder, J. Gutleber	ses	project organisation model NN		
detector concepts M. Dam, NN		hh design M. Giovannozzi	cooling & ventilation G. Peon		placement studies J. Gutleber, V. Merten	ıs	financing model F. Sonnemann		
physics performance P. Azzi, E. Perez		technology R&D R. Losito	integration, installation, transport, logistics, JP Corso, C Colloca, C Prasse		environmental evaluati J. Gutleber	ion	procurement strategy and rules NN		
software and computing G. Ganis, C. Helsens		ee injector P. Craievich, A. Grudiev	general safety, access, radiation protection, T. Otto		tunnel, subsurface desi J. Osborne	ign	in-kind contributions NN		
ee MDI M. Boscolo, NN			Computing, controls, communication, networks D. Duellmann		surface buildings desig	gn	operation model P. Collier & J. Wenninger		
ee energy calibration & polarization (EPOL) J. Wenninger?, A. Blondel			geodesy & survey H. Mainaud Durand, A. Wieser		surface sites layout an access NN	nd			
			Cryogenics sy	stems L.P. Delprat	i				
	-, - <u>-,</u>	-		ntenance, availabili ity <mark>J. Nielsen</mark>	ity,			14	

Action items from July coordination meeting

Software and Computing work package

- Proposals invited for participants in a software & computing task force aimed at revising the mandate, establishing a Work Breakdown Structure, and finding a co-coordinator (see p.11 of Patrick's slides)
 - A dedicated "task force" could help in this perspective, with
 - Experts (former Computing/SW coord.) from CMS, ATLAS, LHCb, ALICE, Linear Collider (*)
 - ◆ A few direct stakeholders (users and developers) from FCC study
 - The specific composition is being discussed, and will be presented next time

Please send proposals for participants to the task force!

A. Blondel, P. Janot, G. Salam

PED Coordination meeting 15 July 2021

(*) Could be suitable co-coordinator candidates as well

11

- Not many proposals received, but "task force" is formed
 - David Lange (Princeton, CMS) accepted to chair the effort
 - All contacted people agreed to participate!
 - → First meeting Thursday 23 September, 4-6pm
- One or two people can be added, if specific profile missing in the list

Tommaso Boccali (CMS) Gloria Corti (LHCb) Giulio Eulisse (ALICE) Frank Gaede (ILC) Gerardo Ganis Paolo Giacomelli

Patrizia Azzi

Clément Helsens

Patrick Janot

David Lange (Chair)

Edward Moyse (ATLAS)

Emmanuel Perez

Frank Simon

FCC Placement Review Recommendation

Main recommendation of the placement review

 "The lowest-risk 8-point option should be chosen as the preferred variant for carrying out the next concrete steps towards understanding the FCC feasibility."

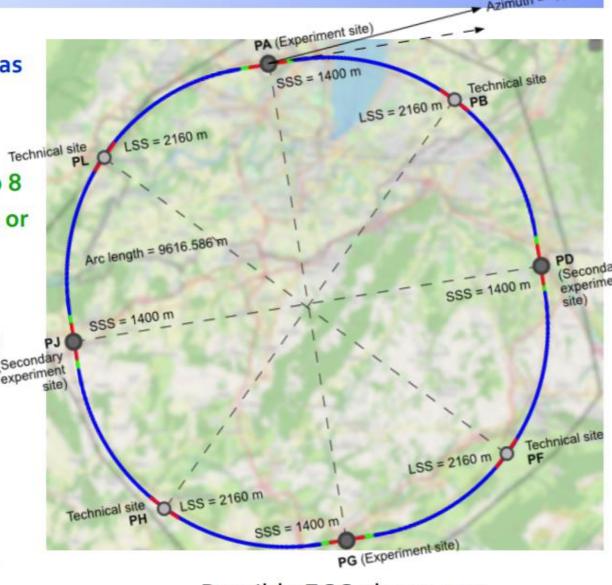
Number of surface points reduced from 12 to 8

 Fourfold super-periodicity compatible with 2 or 4 IPs (choice to be made later) for FCC-ee

> → Request came from the FCC PED Coordination Group, quite feasible!

Total length reduced from 97.75 to 91.17 km

- → PA close to LHC Pt8
- → PG about 10 km north from Annecy
- LSS: 2.16 km; SSS: 1.4 km
- Seek concertation with local authorities
- Key representatives of French "Ministère de l'Enseignement Supérieur, de la Recherche et de l'Innovation" were met end of August at CERN to discuss FCC placement and feasibility study



Possible FCC placement

FCC Placement (cont'd)

- Civil Engineering Process with Host States
 - Iterative process with the HS authorities
 - Territorial impact analysis, access concepts and update of costs
 - On our side (PED), it includes special requirements about the four surface sites that could host HEP experiments
 - → Buildings, laboratories, facilities, etc.
 - → Help welcome! Werner Riegler has been approached.
- Consequences on FCC parameters (and therefore on PED) to be integrated
 - ◆ FCC-ee: Luminosities, energy spread, beam backgrounds, polarisation, maybe 4 IPs ...
 - FCC-hh: Maximum energy, other?
 - Weekly meeting (Tuesday, 3pm) organized by Tor Raubenheimer kicked off yesterday
- Full iteration by FCC Week 2022

FCC Collaboration Board Meeting

Michael Benedikt

Tuesday 14 September 2021, remote zoom meeting

- First ICB meeting since FCCW 2019 in Brussels.
- Starting point for Feasibility Study Phase, based on new MoU
- <u>Institutes that wish to continue should sign in coming months the new MoU.</u>

- Draft agenda:

- Formal approval of institutes that signed the (old) MoU since the last ICB at FCCW 2019.
- New governance structure, deliverables and milestones, new MoU
- Confirmation of institutes' intention to continue participation during the Feasibility Study
- Update of CB representatives and
- Discussion of procedure to elect CB chair (present chair Philippe Chomaz was elected at ICD during FCCW 2018 in Amsterdam "for a first period of three years until Jan 2022")
- Discussion of procedure to appoint up to 5 SC members from participating institutes
- Date for extraordinary CB meeting

FCC Global Collaboration WG

Last meeting took place this morning

- Several countries being formally approached
 - See presentation from Emmanuel Tsesmelis (chair) later today

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- Engagement meetings being scheduled with some countries
 - Korea: 3 Sept 2021; Pakistan: 14 Sept 2021; Portugal: Oct/Nov 2021.
 58 participants 165 registered (!)
- Current format of engagement meetings (~2h)
 - Introduction to the FCC Feasibility Study (Michael Benedikt)
 - Presentation on the FCC Physics case and FCC PED Studies (PED representative)
 - Presentation on the FCC Accelerator Science and Technology (Frank Zimmermann)
 - The FCC Global Collaboration (E. Tsesmelis)
 - Presentation(s) from the Country Scientific Community
- Web page: https://fcc-global-collaboration-working-group.web.cern.ch/

The PED Pillar organisation, to be done soon

Work Packages

- Seek and nominate missing co-coordinator, when needed (DC, S&C, MDI)
- Finalise / Update / Initialise the work package structure and coordination body
 - Identify relevant stake-holders (e.g., working group conveners)
 - May organize mini-review to this aim?
- Mailing lists
- The PED Coordination Group will consist of
 - The work package coordinators
 - The chairs of the support groups
 - Editorial Board, Speakers Büro, Dissemination and Communication, IFNC, ...
 - The organizers of the monthly PED general meetings
 - Plus a few add'l members chosen by the pillar coordinators
- Some of the support groups will need to be installed
 - Editorial Board, Dissemination and communication (see Marcin's presentation), ...

Upcoming Events

- ECFA Higgs Factory workshop
 - CERN, November 9-10: (TBC)
- FCC France Workshop
 - ♦ Annecy, 30 Nov 2 Dec 2021 (hopefully in person)
- Lepton-Photon 2021 (link)
 - ♦ Manchester, 10–14 Jan 2022
 - Deadline for abstracts: 15 Sep 2021
- FCC PED Workshop
 - ◆ Liverpool, 7 11 Feb 2022 https://indico.cern.ch/event/1066234/
- FCC Week 2022
 - Paris, 30 May 3 June 2022

Gregorio Bernardi, APC-Paris, CNRS/IN2P3

FCC Week 2022 - preparations

Michael Benedikt

Date: Monday 30 May 2022 – Friday 3 June 2022

Location downtown Paris

- Preferred: Hotel with conference facilities to easy potential hygienic measures.
- Alternative conference centre
- CERN IPT presently collecting offers

Local organizing committee:

- Preparatory meeting mid September
- Invited: Ursula Bassler, Gregorio Bernardi, Jean-Luc Biarrotte, Philippe Chomaz, Anne-Isabelle Etienvre, Pierre Vedrine.

Meeting format:

- Following format of previous FCC Weeks
- Monday plenary, Tuesday Thursday parallel, Friday plenary
- "Public" event: proposal to focus on local scientific community

FCC France @ Annecy

- -Faire le points sur les derniers développements/projets en France sur détecteurs/R&D, Analyse, Theorie, Accélérateurs.
- -Augmenter la participation Française au Feasibility Study.
- -Associer les communautés FC
- -Préparer les meetings PED de Liverpool en Février (7-11) et FCC-week à Paris fin Mai-Début Juin (30/5-3/6)
- -Miser sur le présentiel (les speakers en particulier), repas communs
- -Heures de début et de fin:

Début Mardi 13h30 (et repas sur place if arriving early)

Fin Jeudi 15H30 (ou 17H00?)

Proposition d'Agenda (suite aux discussions du 14/9)

Mardi 30/11:

lunch (12h00-13H30)

13h30 - 15h00 Session Welcome/Intro, avec G. Lamanna et plusieurs extérieurs (including FCC, CEPC, ILC)

15h30 - 17h00 Session Accélérateurs

17h15 - 18h45 Session R&D Detectors (part-1)

19h00: Cocktail au LAPP

Si Laurent V. est présent possibilité de table ronde de 19h à 20h et cocktail à 20h.

Mercredi 1/12

09.00-10.30 Théorie

11.00-12.30 Session R&D Detectors (part-2)

lunch (12h30-14H00)

14h00-15h30 HF & QCD Jeudi 2/12

16h00-18h00 EW / WW 08h30-10h30 Higgs

18h15-19h15 table ronde 11h00-12h30 Top

20h30 Banquet en ville Lunch (12h30-13h30)

13h30-15h00 Special session ILC/FCC det?

15h00-15h30 Conclusions/prospects IN2P3 (en particulier si LV vient le mercredi plutot que le lundi).