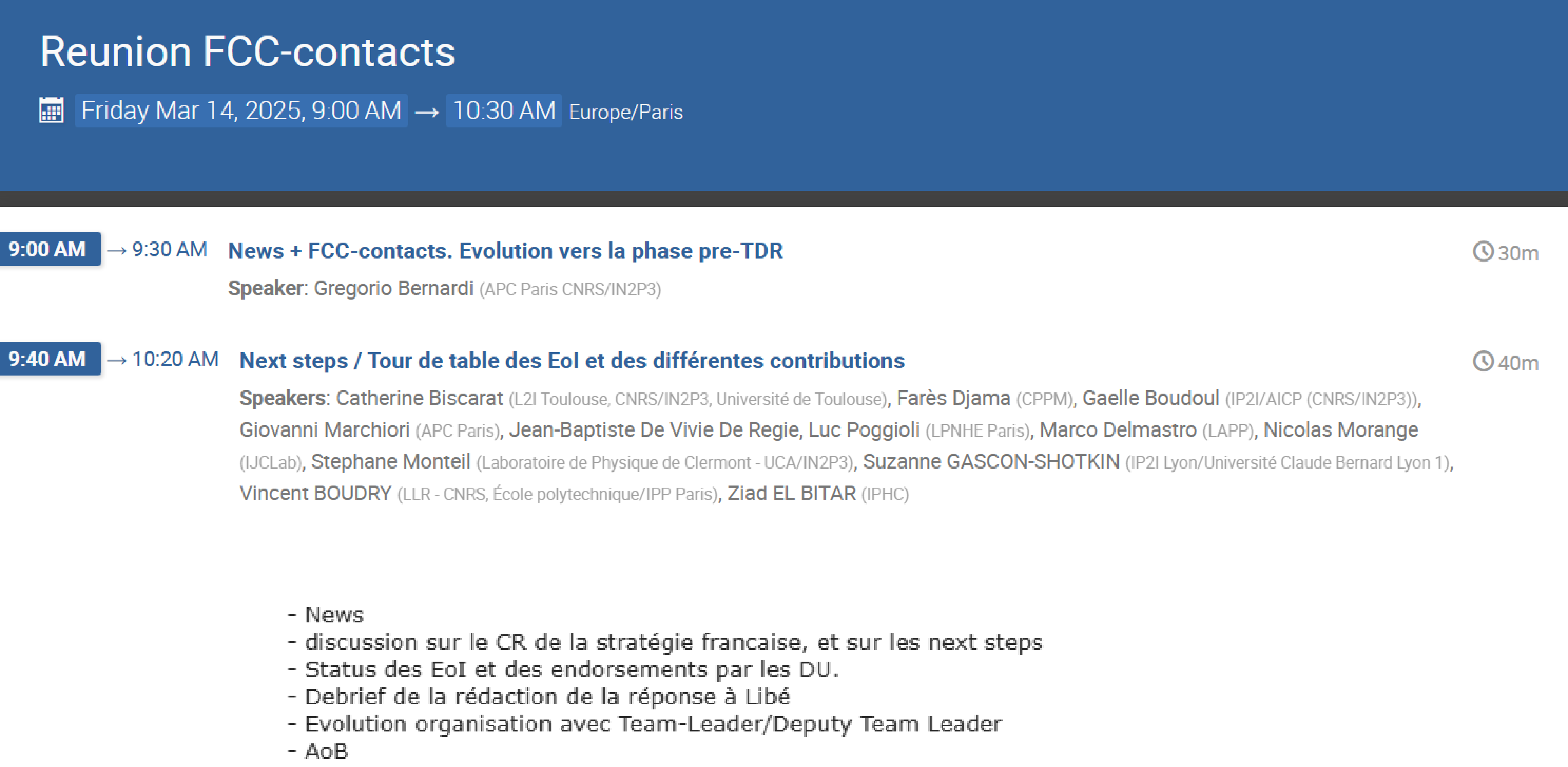


Reunion FCC-contacts

Friday Mar 14, 2025, 9:00 AM → 10:30 AM Europe/Paris

9:00 AM → 9:30 AM **News + FCC-contacts. Evolution vers la phase pre-TDR** 30m

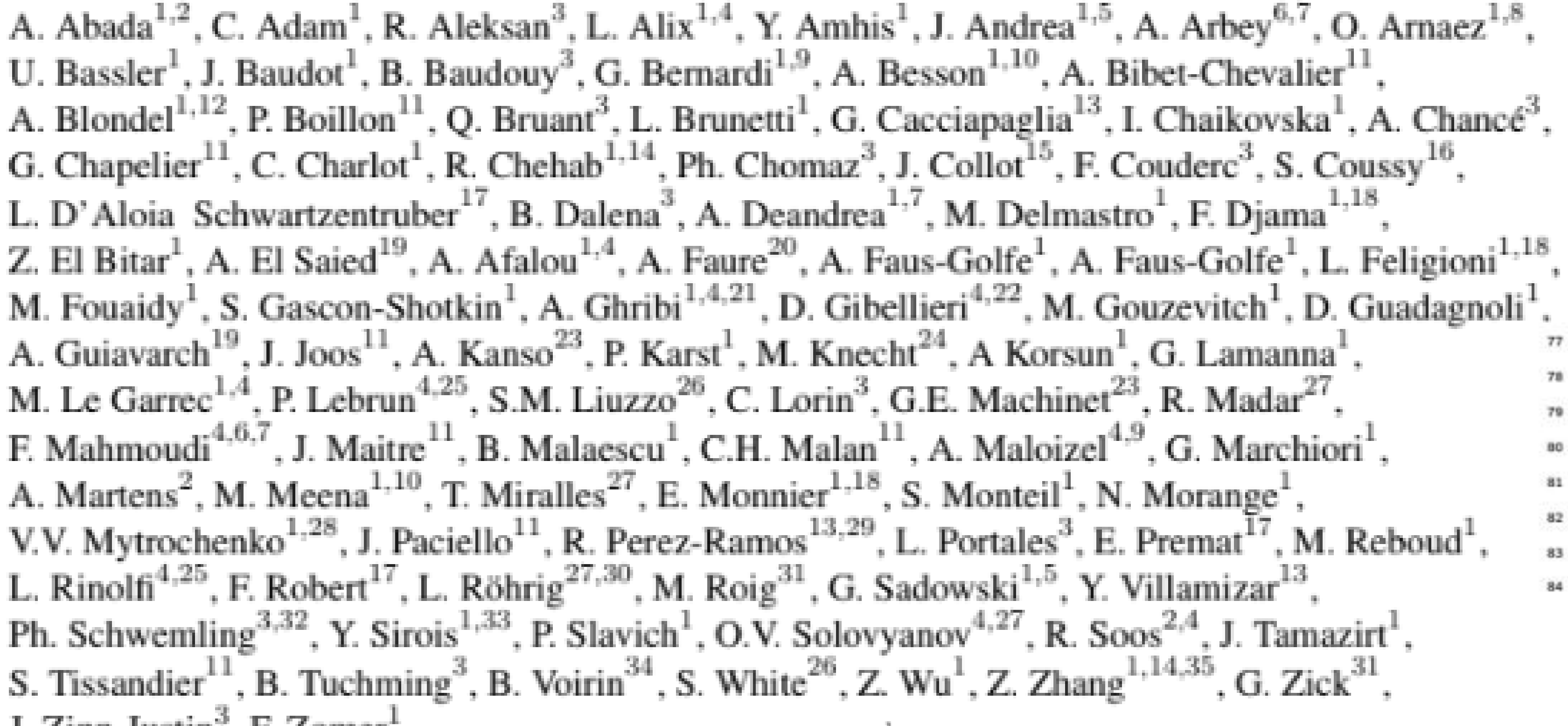
Speaker: Gregorio Bernardi (APC Paris CNRS/IN2P3)

9:40 AM → 10:20 AM **Next steps / Tour de table des EoI et des différentes contributions** 40m

Speakers: 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)

- News
- discussion sur le CR de la stratégie francaise, et sur les next steps
- Status des EoI et des endorsements par les DU.
- Debrief de la rédaction de la réponse à Libé
- Evolution organisation avec Team-Leader/Deputy Team Leader
- AoB

Auteurs instituts Francais
Feasibility Study le 13/3



A. Abada[1,2], C. Adam[1], R. Aleksan[3], L. Alix[1,4], Y. Amhis[1], J. Andrea[1,5], A. Arbey[6,7], O. Arnaez[1,8],
U. Bassler[1], J. Baudot[1], B. Baudouy[3], G. Bernardi[1,9], A. Besson[1,10], A. Bibet-Chevalier[11],
A. Blondel[1,12], P. Boillon[11], Q. Bruant[3], L. Brunetti[1], G. Cacciapaglia[13], I. Chaikovska[1], A. Chancé[3],
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L. D'Aloia Schwartzentruber[17], B. Dalena[3], A. Deandrea[1,7], M. Delmastro[1], F. Djama[1,18],
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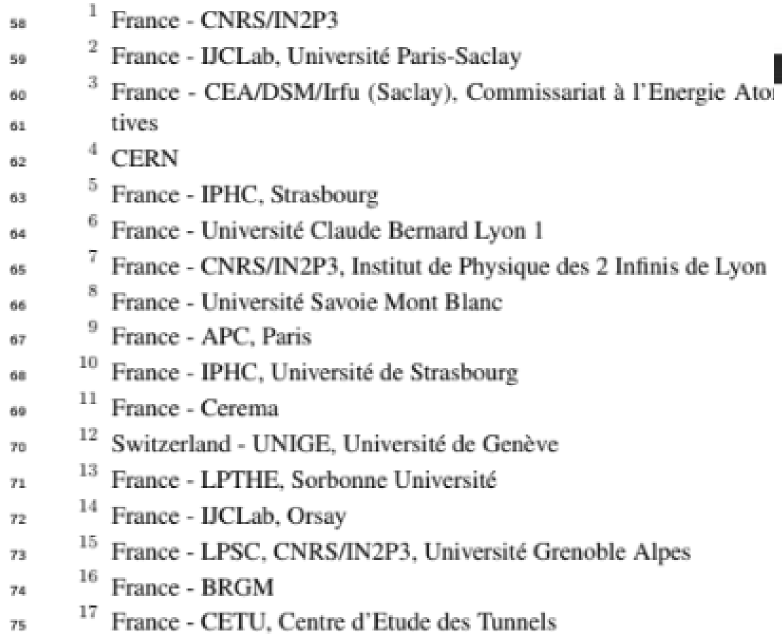
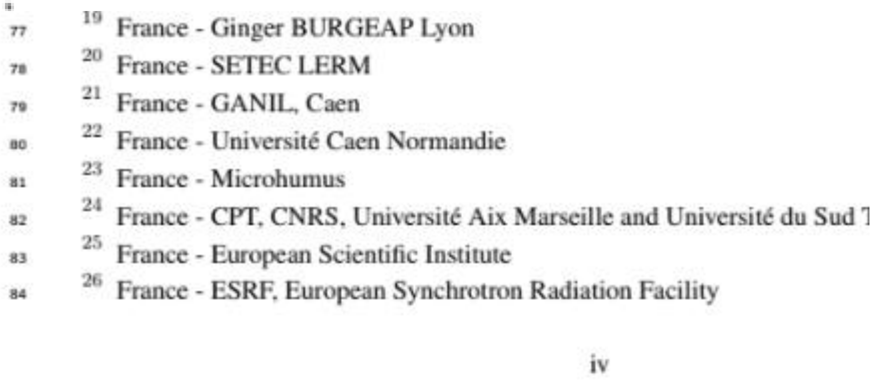
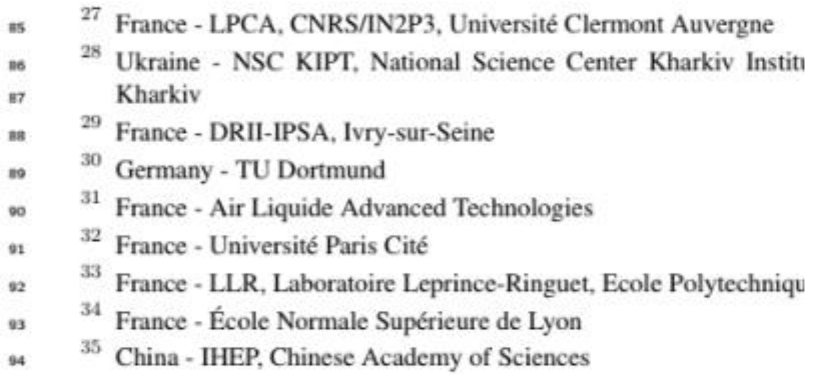
M. Fouaidy[1], S. Gascon-Shotkin[1], A. Ghribi[1,4,21], D. Gibellieri[4,22], M. Gouzevitch[1], D. Guadagnoli[1],
A. Guiavarch[19], J. Joos[11], A. Kanso[23], P. Karst[1], M. Knecht[24], A Korsun[1], G. Lamanna[1],
M. Le Garrec[1,4], P. Lebrun[4,25], S.M. Liuzzo[26], C. Lorin[3], G.E. Machinet[23], R. Madar[27],
F. Mahmoudi[4,6,7], J. Maitre[11], B. Malaescu[1], C.H. Malan[11], A. Maloizel[4,9], G. Marchiori[1],
A. Martens[2], M. Meena[1,10], T. Miralles[27], E. Monnier[1,18], S. Monteil[1], N. Morange[1],
V.V. Mytrochenko[1,28], J. Paciello[11], R. Perez-Ramos[13,29], L. Portales[3], E. Premat[17], M. Reboud[1],
L. Rinolfi[4,25], F. Robert[17], L. Röhrig[27,30], M. Roig[31], G. Sadowski[1,5], Y. Villamizar[13],
Ph. Schwemling[3,32], Y. Sirois[1,33], P. Slavich[1], O.V. Solovyanov[4,27], R. Soos[2,4], J. Tamazirt[1],
S. Tissandier[11], B. Tuchming[3], B. Voirin[34], S. White[26], Z. Wu[1], Z. Zhang[1,14,35], G. Zick[31],
J. Zinn-Justin[3], F. Zomer[1],



[1] France - CNRS/IN2P3
[2] France - IJCLab, Université Paris-Saclay
[3] France - CEA/DSM/Irfu (Saclay), Commissariat à l'Energie Ato
tives
[4] CERN
[5] France - IPHC, Strasbourg
[6] France - Université Claude Bernard Lyon 1
[7] France - CNRS/IN2P3, Institut de Physique des 2 Infinis de Lyon
[8] France - Université Savoie Mont Blanc
[9] France - APC, Paris
[10] France - IPHC, Université de Strasbourg
[11] France - Cerema
[12] Switzerland - UNIGE, Université de Genève
[13] France - LPTHE, Sorbonne Université
[14] France - IJCLab, Orsay
[15] France - LPSC, CNRS/IN2P3, Université Grenoble Alpes
[16] France - BRGM
[17] France - CETU, Centre d'Etude des Tunnels



[19] France - Ginger BURGEAP Lyon
[20] France - SETEC LERM
[21] France - GANIL, Caen
[22] France - Université Caen Normandie
[23] France - Microhumus
[24] France - CPT, CNRS, Université Aix Marseille and Université du Sud T
[25] France - European Scientific Institute
[26] France - ESRF, European Synchrotron Radiation Facility



[27] France - LPCA, CNRS/IN2P3, Université Clermont Auvergne
[28] Ukraine - NSC KIPT, National Science Center Kharkiv Institu
Kharkiv
[29] France - DRII-IPSA, Ivry-sur-Seine
[30] Germany - TU Dortmund
[31] France - Air Liquide Advanced Technologies
[32] France - Université Paris Cité
[33] France - LLR, Laboratoire Leprince-Ringuet, Ecole Polytechniqu
[34] France - École Normale Supérieure de Lyon
[35] China - IHEP, Chinese Academy of Sciences

Tour de table sur évolution person-power: stagiaires ?

Jamboree le vendredi 4 Juillet matin

Future events

- ECR@ESPPU symposium (20/02/25, CERN and online)

- 3rd US-FCC workshop (15-17/04/25 ANL+FNAL)

- FCC week (19-23/05/25, Vienna)

- the ESPPU open symposium (23-27/06/26, Venice)

19-23 MAY
FCC
WEEK
2025
HOFBURG
VIENNA

19-23 May 2025, Hofburg Vienna – Heldenplatz – 1010 Vienna, Austria

The Hofburg lies at the heart of Vienna's Old Town, the best way to reach it is by public transit. Two underground stations as well as bus and tram stops are all within walking distance. Motorists can park their vehicles at nearby car parks (for a fee).

BUCHFELD
SCHOTTENVIERTEL
JOSEFSTADT
Vienna
SAINT ULRICH
SPITTELBERG
Hofburg Palace

https://indico.cern.ch/event/1408515

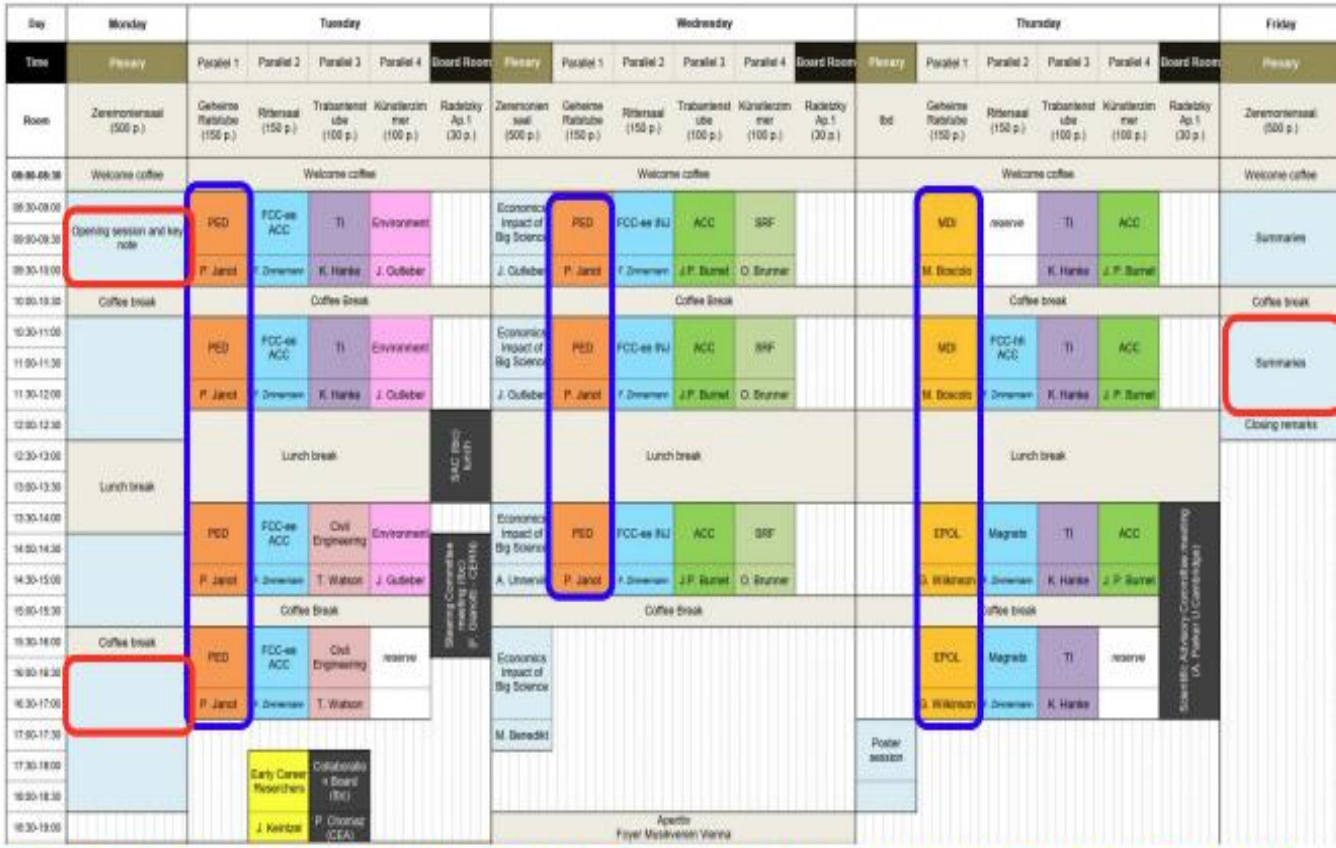
2025 FCC Week

Copied from FCC Week 2024 in San Francisco

- 🟥 1 PED plenary session + 1 keynote presentation
- 🟥 1 summary talk
- 🟦 9 PED parallel sessions
  - Of which 1 MDI, 1 EPOL
- ECR session
  - Only in parallel with CB meeting

Registration fees

- Standard: 550 euros
- Student: 300 euros
- One-day pass: 150 euros
- Zoom: 30 euros



Day	Monday	Tuesday					Wednesday						Thursday						Friday
Time	Plenary	Parallel 1	Parallel 2	Parallel 3	Parallel 4	Board Room	Plenary	Parallel 1	Parallel 2	Parallel 3	Parallel 4	Board Room	Plenary	Parallel 1	Parallel 2	Parallel 3	Parallel 4	Board Room	Plenary
Room	Zeremoniensaal (500 p.)	Geheime Ratstube (150 p.)	Rittersaal (150 p.)	Trabantenstube (100 p.)	Künstlerzimmer (100 p.)	Radetzky Ap.1 (30 p.)	Zeremoniensaal (500 p.)	Geheime Ratstube (150 p.)	Rittersaal (150 p.)	Trabantenstube (100 p.)	Künstlerzimmer (100 p.)	Radetzky Ap.1 (30 p.)	tbd	Geheime Ratstube (150 p.)	Rittersaal (150 p.)	Trabantenstube (100 p.)	Künstlerzimmer (100 p.)	Radetzky Ap.1 (30 p.)	Zeremoniensaal (500 p.)
08:00-08:30	Welcome coffee	Welcome coffee					Welcome coffee						Welcome coffee						Welcome coffee
08:30-09:00	Opening session and key note	PED	FCC-ee ACC	TI	Environment		Economics Impact of Big Science	PED	FCC-ee INJ	ACC	SRF			MDI	reserve	TI	ACC		Summaries
09:00-09:30																			
09:30-10:00		P. Janot	F. Zimmermann	K. Hanke	J. Gutleber		J. Gutleber	P. Janot	F. Zimmermann	J.P. Burnet	O. Brunner			M. Boscolo		K. Hanke	J.P. Burnet		
10:00-10:30	Coffee break	Coffee Break					Coffee Break						Coffee break						Coffee break
10:30-11:00		PED	FCC-ee ACC	TI	Environment		Economics Impact of Big Science	PED	FCC-ee INJ	ACC	SRF			MDI	FCC-hh ACC	TI	ACC		Summaries
11:00-11:30																			
11:30-12:00		P. Janot	F. Zimmermann	K. Hanke	J. Gutleber		J. Gutleber	P. Janot	F. Zimmermann	J.P. Burnet	O. Brunner			M. Boscolo	F. Zimmermann	K. Hanke	J.P. Burnet		
12:00-12:30		Lunch break				SAC (tbc) lunch	Lunch break						Lunch break						Closing remarks
12:30-13:00	Lunch break																		
13:00-13:30																			
13:30-14:00		PED	FCC-ee ACC	Civil Engineering	Environment		Economics Impact of Big Science	PED	FCC-ee INJ	ACC	SRF			EPOL	Magnets	TI	ACC	Scientific Advisory Committee meeting (A. Parker U Cambridge)	
14:00-14:30						Steering Committee meeting (StC) F. Gianotti - CERN													
14:30-15:00		P. Janot	F. Zimmermann	T. Watson	J. Gutleber		A. Unnervik	P. Janot	F. Zimmermann	J.P. Burnet	O. Brunner			G. Wilkinson	F. Zimmermann	K. Hanke	J.P. Burnet		
15:00-15:30		Coffee Break					Coffee Break						Coffee break						
15:30-16:00	Coffee break	PED	FCC-ee ACC	Civil Engineering	reserve		Economics Impact of Big Science							EPOL	Magnets	TI	reserve		
16:00-16:30																			
16:30-17:00		P. Janot	F. Zimmermann	T. Watson										G. Wilkinson	F. Zimmermann	K. Hanke			
17:00-17:30							M. Benedikt						Poster session						
17:30-18:00			Early Career Researchers	Collaboration Board (tbc)															
18:00-18:30																			
18:30-19:00			J. Keintzel	P. Chomaz (CEA)			Apertif Foyer Musikverein Vienna												

To all work package coordinators (PProg, PPerf, DetCon, S&C, EPOL, MDI) - input needed by Feb. 20

- Please send suggestions for list of topics and speakers for the parallel sessions
- Any volunteer for the summary talk?

Discussion sur le CR de la stratégie francaise, et sur les next steps

3.4 Sustainability

Sustainability considerations in HEP are pivotal, to respect the planetary boundaries, to comply with the rapidly evolving regulation, and to align with the global effort demanded on society. The HEP community should lead by example by addressing these issues from the earliest stages of future projects, thereby increasing their acceptance by civil society and strengthening the staff's engagement.

Maximizing the scientific return of HEP projects must be balanced against costs, efficiency, and environmental footprint, with the ambition to reach an overall environmental impact compatible with global decarbonization goals. The environmental factors, including life cycle analysis and socio-economic impact studies, must be among the core evaluation criteria to be scrutinized in-depth. The quantification and mitigation of environmental footprints across laboratories, institutes, and collaborations must be generalized. Sustainable procurement practices and building construction, energy mix considerations and the promotion of new research practices also require special attention. The new infrastructures should be eco-designed, prioritising the use of low-carbon material, reducing negative impacts on biodiversity and ideally offering it a haven. The minimization of the impacts should be seen as an opportunity to explore new R&D paths rather than a constraint limiting the scientific goals. The integration of a life cycle assessment in the future accelerator project proposals is considered as a positive first step.

To go beyond aspirations, significant investments in R&D for sustainable detector technologies, energy-efficient computing powered on low-carbon electricity, and innovative acceleration methods are crucial. Priorities encompass phasing out high-GWP gases for cooling or particle detection, and energy efficiency in operations. France's expertise in areas such as energy recovery accelerators and klystron efficiency offers opportunities to contribute to an European leadership in sustainable technologies. Committing to a sustainable trajectory is also an opportunity to bring new expertise on cutting-edge technologies in HEP.

Finally, communicating the efforts to minimize the environmental footprint to the rest of the scientific community, decision-makers and the general public is crucial for greater societal acceptance, particularly for large-scale projects. France, as host state, has a leading role to play in this respect. The communication strategy would benefit from the definition of transparent and unbiased key quantitative indicators and a clear carbon footprint reduction trajectory, with long-term planning.

If the construction of an e^+e^- collider comparable to the FCC$_{\text{ee}}$ *is not firmly established outside of Europe:*

In absence of FCC$_{\text{ee}}$, a linear e^+e^- collider facility (LCF) at CERN would be the next best option for a Higgs factory. Somewhat limited statistics at the HZ cross-section peak and a much smaller luminosity at the Z-pole are in part compensated by the possibility to reach at least $\sqrt{s} = 500$ GeV, allowing a clean observation of the $e^+e^- \to \nu\nu H$ process, of the top threshold, and a first determination of the Higgs-boson self coupling. Energies of $\sqrt{s} = 1$–3 TeV, as enabled by CLIC technology, would significantly improve these measurements and allow detailed studies of vector-boson scattering. The LCF program could be complemented by a dedicated, high-luminosity Z factory, possibly re-using existing infrastructure at CERN.

As a last-resort fall-back, LEP3 offers an instantaneous luminosity five times less than FCC$_{\text{ee}}$ and an energy range limited to about $\sqrt{s} = 240$ GeV. This still matches the purpose of an electroweak, flavour and Higgs factory in line with the 2020 ESPP, but does not allow a complete test of the electroweak theory. LEP3 could be followed by a hadron collider, benefitting of high-field magnets which would be developed at the horizon of the completion of HL-LHC, to address the missing issues on a much longer timescale.

If the construction of an e^+e^- collider comparable to the FCC_{ee} *is firmly established outside of Europe, and ahead of the European project:*

The LCF would provide sufficient scientific complementarity only if it covers the entire energy range between the $t\bar{t}$ production threshold and the TeV scale on a reasonable timespan.

Alternatively, the strategy could shift towards the earlier development of a high-energy hh/eh program, ideally implemented in a new tunnel as in the case of FCC. Given the shorter time available for magnet development, the energy reach would likely be reduced to about $\sqrt{s} = 85$ TeV.

If a new tunnel is not feasible, a collider such as the HE-LHC could be a fallback alternative with comparable scientific breadth. Due to its limited size, the HE-LHC energy reach would be limited to O(25 TeV). However, it would serve as a natural extension of the HL-LHC, reaching similar precision as a TeV-scale LCF. Dedicated flavour and HI experiments could improve on LHC's respective legacies.

Both the FCC_{hh} and the HE-LHC should be complemented by an electron-hadron collider such as the LHeC to resolve the uncertainties stemming from the proton and nuclear structure in these uncharted energy regimes. The LHeC also has a rich physics program of its own, with fundamental measurements in the strong and electroweak sectors, and a non negligible potential for NP searches. It could run in the early 2040's and use improved acceleration techniques based on ERL that will help achieve the sustainability requirements and benefit to future e^+e^- colliders.

While the fall-back scenarios presented above are clearly sub-optimal compared to the FCC program, the scientific loss is in part compensated by the faster scientific return and increased complementarity offered by a program including ee, pp and ep collisions in different regions and on similar timescales.

Next Steps: EOIs

The Calls

Editorial team:
Srini Rajagopalan,
Guy Wilkinson,
with MD, MAP, FS

Deadline Jan 31 for submission of EOIs to **PED** (us) was **extended to Feb 16**

- for editorial feedback and iteration

39 written documents received - and counting

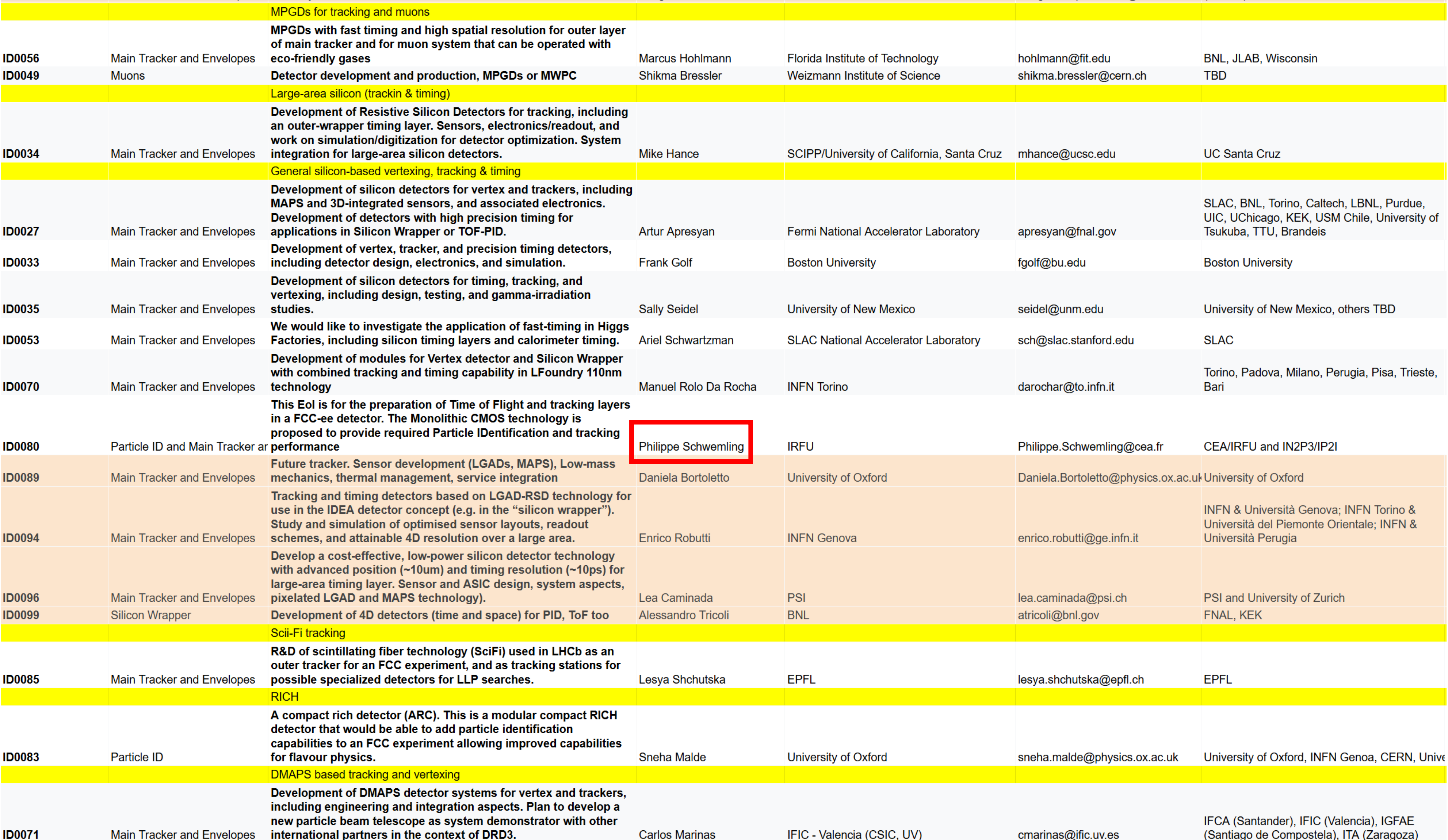
- many mergers - covering 75 original registrations on our google sheet
- have following up with those groups who presented at Satellite meeting and had not submitted yet
- giving some feedback, essentially checking for completeness in response to the calls

Inclusion in combined FCC submission

- we will write an **executive summary or cover letter** (3 pages or so)
    - explain calls, plus some statistics on submissions, and table of EoIs
    - to be circulated with all submitters
- **staple together EoIs in pdf** format in supporting document to common FCC submission
    - cannot be attached directly - as was planned originally - due to 10 page limit
- include **clickable table** of content in main (summary) document, similar to groped EoI google doc
    - such that EoIs can be directly accessed from there

EOI Abstract ID	Category of EOI	Description of the project	PI/Contact Name	PI/Contact Institute	PI/Contact Email	Collaborating Institutes
		Machine Learning for Event Selection and Reconstruction				
ID0050	Algorithms (including AI)	**Machine Learning for Particle Flow has the potential to greatly improve reconstruction, but significant R&D is needed. We aim to develop novel ML for PFlow models, usable for different detectors including dual readout, and to aid detector design.**	Michael Kagan		makagan@slac.stanford.edu	SLAC, UCSD, TUM
ID0052	Calorimeter	**The calorimeter is the item with the most variation among current Higgs Factory Detector proposals. We propose to study calorimetry reconstruction broadly, including dual readout, fast-timing, high granularity, and AI/ML particle flow methods.**	Ariel Schwartzman	SLAC National Accelerator Laboratory	sch@slac.stanford.edu	SLAC, Louisiana Tech University, CalVision collaboration
ID0073	Algorithms (including AI)	**Building on the experience / contribution to CMS and CMS Upgrades – including trigger algorithms, ML and real-time AI. Most of the potential effort is currently focused on completing the latter.**	Alex Tapper	Imperial College London	a.tapper@imperial.ac.uk	TBD
		ML-based detector design optimisation				
ID0051	Algorithms (including AI)	**Detector design optimization is an arduous process, but machine learning has seen massive progress for design tasks. We aim to develop ML methods for detector design optimization, including methods R&D and interfacing with simulator like GEANT.**	Michael Kagan	SLAC National Accelerator Laboratory	makagan@slac.stanford.edu	SLAC, TUM
ID0097	Algorithms (including AI)	**Detector design optimization is an arduous process, but machine learning has seen massive progress for design tasks. We aim to develop ML methods for detector design optimization, including methods R&D and interfacing with simulator like GEANT.**	Tobias Golling	University of Geneva	Tobias.Golling@unige.ch	SLAC, TUM
		Crystal and fibre calorimetry				
ID0012	Calorimeter	**The CalVision Consortium is conducting a R&D on state-of-the-art calorimetry, emphasizing homogeneous calorimetry including dual readout, use of timing analysis, development of new kinds particle flow algorithms, and machine learning techniques.**	Bob Hirosky	U. Virginia	hirosky@virginia.edu	ANL, Baylor U. Brandeis U, Caltech, Catholic University of America, FNAL, U. Maryland, U. Michigan, MIT, Princeton U., Purdue U., SLAC, Rutgers U., Texas Technical U., Stonybrook U., U. Virginia
ID0022	Calorimeter	**Korea Dual-Readout Calorimeter (DRC) Consortium is doing the following R&Ds: EM & Had Performance, PID (+ML, QML), Absorber type, Beam tests, High Granularity, Time & Position resolutions, Shower 3DReco/profile/depth, fast optical simulation, DAQ R&D**	Hwidong Yoo	Yonsei University	hdyoo@cern.ch	Gangneung-Wonju National University, Kyungpook National University, University of Seoul, Yonsei University
ID0028	Calorimeter	**DR crystal calorimeter R&D using multiple measurements. High granularity silicon calorimeter based on CMOS Monolithic Active Pixel Sensors. Novel materials for DR calorimetry. Calorimeter facility at the Fermilab Test Beam Facility.**	James Hirschauer	Fermi National Accelerator Laboratory	jhirsch@fnal.gov	ANL, Baylor, Brandeis, Caltech, CERN, Lyon, Maryland, Michigan, Milano-Bicocca, MIT, ORNL, Perugia, Princeton, Purdue, Stony Brook, Texas Tech, Virginia
		Noble liquid calorometry				
ID0023	Calorimeter	**We are interested in pursuing R&D for noble liquid calorimetry for FCC. Our primary initial interest in is detector simulation and possible joint work on module development and testing. We foresee faculty and early graduate student level involvement.**	John Hobbs	Stony Brook Univ.	john.hobbs@stonybrook.edu	BNL, CERN
ID0031	Calorimeter	**Calorimetry using noble liquid detectors and electronic readout design (including on-chip AI/ML), and simulation and modeling impact of upstream material.**	Tim Andeen	University of Texas at Austin	tandeen@utexas.edu	
ID0067	Calorimeter	**The ALLEGRO Ecal is a concept of a liquified noble gas calorimeter, designed to provide a high-performance, cost-effective solution for FCC-ee. It combines excellent energy resolution, and high granularity for particle flow reconstruction and PID.**	Nicolas Morange	IJCLab	nicolas.morange@cern.ch	APC, BNL, Brown University, CERN, CPPM, CUNI, IFIN-HH + UNSTPB, IJCLab, LAPP, LPNHE, MPI Munich, NYU, Omega, Southern Methodist University, Stony Brook University, TU Dresden, IEP SAS Kosice, University of Arizona, University of Columbia, UT Austin
ID0064	Calorimeter	**Design, performance simulation, and prototype testing of a fine-segmented noble liquid electromagnetic endcap calorimeter (turbine geometry) consistent with the design of the barrel electromagnetic calorimeter for the ALLEGRO detector concept.**	John Rutherfoord	University of Arizona	rutherfo@physics.arizona.edu	University of Arizona + others welcome
		SiPM-on-Tile HCAL				
ID0032	Calorimeter	**Development of the SiPM-on-Tile Analog Hadron Calorimeter (AHCAL) technology: detector geometry, readout and trigger concept and electronics, mechanical and thermal integration, photon sensors, scintillators, simulation and reconstruction.**	Frank Simon	KIT	frank.simon@kit.edu	DESY, U Hamburg, U Heidelberg, KIT, U Mainz, UT Arlington, NIU, FZU Prague

		SiW ECAL				
ID0039	Calorimeter	**SiW-ECAL : a silicon-tungsten highly granular electromagnetic calorimeter suitable for particle flow-based detector concepts at a Higgs/ElectroWeak/Top factory.**	Vincent Boudry	LLR – LLR, CNRS, École polytechnique, Insti	Vincent.Boudry@in2p3.fr	IJCLab (Orsay), LLR (Palaiseau), LPNHE (Paris), Omega (Palaiseau), DMLab, IFIC (Valencia), CERN, U. Tokyo, KEK, iThemba labs (Cape Town)
ID0074	Calorimeter	**Building on the experience / contribution to CMS and CMS Upgrades - and in particular HGCAL and design studies, high throughput digital electronics and algorithms. Most of the potential effort is currently focused on completing the latter.**	Anne-Marie Magnan	Imperial College London	a.magnan@imperial.ac.uk	TBD
		MAPS ECAL				
ID0059	Calorimeter	**Development of MAPs for Si-tungsten calorimeter.**	Alexander Paramonov	Argonne National Laboratory	aparamonov@anl.gov	ANL
		Tile fibre HCAL				
ID0086	Calorimeter	**The ALLEGRO HCAL is a concept of a scintillating tile hadronic calorimeter for the central region, designed to provide a high-performance, high granularity and cost-effective solution for FCC-ee.**	Henric Wilkens	CERN	Henric.Wilkens@cern.ch	LIP, CERN, ITIM Cluj, IFIC Valencia, Univ. of Be
		Granita Calorimeter				
ID0087	Calorimeter	**Novel calorimeter concept with millimetric scintillating crystal grains (grown by flux method) read-out by WLS fibres for high-energy resolution calorimetry: GRAiNITA**	Stéphane Monteil	Clermont University	monteil@in2p3.fr	IJCLab (CNRS/Université Paris-Saclay), ISMA (Kharkiv, Ukraine), TSNUK (Kyiv, Ukraine), LPCA (CNRS/ Université de Clermont)
		RPC Calorimeter				
ID0095	Calorimeter	**We plan transform the CALICE Semi-Digital Hadronic Calorimeter into a 5D calorimeter (T-SDHCAL), and develop new high rate multi-gap RPC (MRPC) with time resolutions of the order of tens of ps, along with new readout electronics and a new DAQ scheme.**	Imad Laktineh	IP2I - Lyon	imad.baptiste.laktineh@cern.ch	IP2I Lyon, CIEMAT, Vrije Universiteit Brussel, OMEGA, Universidad de Córdoba, Shanghai Jiao Tong University, Yonsei Cancer Center, Gangneung-Wonju National University, Université de Tunis El Manar,
		LumiCal				
	Lumical	**Development of Lumical**	Mogens Dam			
ID0102	Calorimeter	**Luminosity and forward calorimeters**	Yan Benhammou	Tel Aviv University	ybenham@cern.ch	FCal Collaboration
ID0104	Luminometer & off-detector fee	**Development of SNSPDs (quantum sensors) for FCC experiments, including possibility as luminometer**	Ben Kilminster	University of Zurich	ben.Kilminster@physik.uzh.ch	University of Zurich, University of Geneva
		Carbon fibre wire chamber				
ID0013	Main Tracker and Envelopes	**Interested and working towards detector concept based on a novel wire chamber concept employing carbon fiber wires for the Outer tracking device of FCC-ee. Open for additional collaborators.**	Andy Jung	Purdue University	andreas.werner.jung@cern.ch	Purdue University
		Straw-tube tracker				
ID0015	Main Tracker and Envelopes	**Straw-tube tracker design and tracker design optimization**	Oliver Kortner	Max-Planck Institute for Phyics	Oliver.Kortner@cern.ch	University of Michigan, Ann Arbor
ID0062	Main Tracker and Envelopes	**R&D for straw tracker electronics/readout**	Anyes Taffard	UC Irvine	ataffard@uci.edu	UM, MSU, UMass, Harvard, Duke, UT Austin, MPI
ID0038	Main Tracker and Envelopes	**Development of a thin-wall straw tracker for FCC-ee inner tracking system. Combined with the pixel detector and silicon wrapper, it will provide excellent momentum resolution and PID capability over a wide momentum range.**	Junjie Zhu	University of Michigan	junjie@umich.edu	MPI, UMass, Harvard, Tufts, MSU, UC Irvine, Duke, UT Austin
		Drift chamber				
ID0024	Main Tracker and Envelopes	**PID optimization for gas trackers**	Peter Onyisi	University of Texas at Austin	ponyisi@utexas.edu	University of Michigan, MPI Munich
ID0043	Main Tracker and Envelopes	**Work on gaseous trackers for ALLEGRO and IDEA**	George Iakovidis	Brookhaven National Laboratory	giakovidis@bnl.gov	INFN, Michigan
ID0061	Main Tracker and Envelopes	**Cell geometry optimization for drift chamber as main tracker.**	Charles Young	SLAC	young@slac.stanford.edu	TBC
ID0101	Main Tracker and Envelopes	**Development of an ultra-light drift chamber operating in helium atmosphere with PId capabilities based on cluster counting technique for the IDEA detector**	Margherita Primavera	INFN Lecce	margherita.primavera@le.infn.it	INFN Lecce, INFN Bari, BNL (US), IJCLAB (France)



		MPGDs for tracking and muons				
ID0056	Main Tracker and Envelopes	**MPGDs with fast timing and high spatial resolution for outer layer of main tracker and for muon system that can be operated with eco-friendly gases**	Marcus Hohlmann	Florida Institute of Technology	hohlmann@fit.edu	BNL, JLAB, Wisconsin
ID0049	Muons	**Detector development and production, MPGDs or MWPC**	Shikma Bressler	Weizmann Institute of Science	shikma.bressler@cern.ch	TBD
		Large-area silicon (trackin & timing)				
ID0034	Main Tracker and Envelopes	**Development of Resistive Silicon Detectors for tracking, including an outer-wrapper timing layer. Sensors, electronics/readout, and work on simulation/digitization for detector optimization. System integration for large-area silicon detectors.**	Mike Hance	SCIPP/University of California, Santa Cruz	mhance@ucsc.edu	UC Santa Cruz
		General silicon-based vertexing, tracking & timing				
ID0027	Main Tracker and Envelopes	**Development of silicon detectors for vertex and trackers, including MAPS and 3D-integrated sensors, and associated electronics. Development of detectors with high precision timing for applications in Silicon Wrapper or TOF-PID.**	Artur Apresyan	Fermi National Accelerator Laboratory	apresyan@fnal.gov	SLAC, BNL, Torino, Caltech, LBNL, Purdue, UIC, UChicago, KEK, USM Chile, University of Tsukuba, TTU, Brandeis
ID0033	Main Tracker and Envelopes	**Development of vertex, tracker, and precision timing detectors, including detector design, electronics, and simulation.**	Frank Golf	Boston University	fgolf@bu.edu	Boston University
ID0035	Main Tracker and Envelopes	**Development of silicon detectors for timing, tracking, and vertexing, including design, testing, and gamma-irradiation studies.**	Sally Seidel	University of New Mexico	seidel@unm.edu	University of New Mexico, others TBD
ID0053	Main Tracker and Envelopes	**We would like to investigate the application of fast-timing in Higgs Factories, including silicon timing layers and calorimeter timing.**	Ariel Schwartzman	SLAC National Accelerator Laboratory	sch@slac.stanford.edu	SLAC
ID0070	Main Tracker and Envelopes	**Development of modules for Vertex detector and Silicon Wrapper with combined tracking and timing capability in LFoundry 110nm technology**	Manuel Rolo Da Rocha	INFN Torino	darochar@to.infn.it	Torino, Padova, Milano, Perugia, Pisa, Trieste, Bari
ID0080	Particle ID and Main Tracker ar	**This EoI is for the preparation of Time of Flight and tracking layers in a FCC-ee detector. The Monolithic CMOS technology is proposed to provide required Particle IDentification and tracking performance**	Philippe Schwemling	IRFU	Philippe.Schwemling@cea.fr	CEA/IRFU and IN2P3/IP2I
ID0089	Main Tracker and Envelopes	**Future tracker. Sensor development (LGADs, MAPS), Low-mass mechanics, thermal management, service integration**	Daniela Bortoletto	University of Oxford	Daniela.Bortoletto@physics.ox.ac.uk	University of Oxford
ID0094	Main Tracker and Envelopes	**Tracking and timing detectors based on LGAD-RSD technology for use in the IDEA detector concept (e.g. in the “silicon wrapper”). Study and simulation of optimised sensor layouts, readout schemes, and attainable 4D resolution over a large area.**	Enrico Robutti	INFN Genova	enrico.robutti@ge.infn.it	INFN & Università Genova; INFN Torino & Università del Piemonte Orientale; INFN & Università Perugia
ID0096	Main Tracker and Envelopes	**Develop a cost-effective, low-power silicon detector technology with advanced position (~10um) and timing resolution (~10ps) for large-area timing layer. Sensor and ASIC design, system aspects, pixelated LGAD and MAPS technology).**	Lea Caminada	PSI	lea.caminada@psi.ch	PSI and University of Zurich
ID0099	Silicon Wrapper	**Development of 4D detectors (time and space) for PID, ToF too**	Alessandro Tricoli	BNL	atricoli@bnl.gov	FNAL, KEK
		Scii-Fi tracking				
ID0085	Main Tracker and Envelopes	**R&D of scintillating fiber technology (SciFi) used in LHCb as an outer tracker for an FCC experiment, and as tracking stations for possible specialized detectors for LLP searches.**	Lesya Shchutska	EPFL	lesya.shchutska@epfl.ch	EPFL
		RICH				
ID0083	Particle ID	**A compact rich detector (ARC). This is a modular compact RICH detector that would be able to add particle identification capabilities to an FCC experiment allowing improved capabilities for flavour physics.**	Sneha Malde	University of Oxford	sneha.malde@physics.ox.ac.uk	University of Oxford, INFN Genoa, CERN, Unive
		DMAPS based tracking and vertexing				
ID0071	Main Tracker and Envelopes	**Development of DMAPS detector systems for vertex and trackers, including engineering and integration aspects. Plan to develop a new particle beam telescope as system demonstrator with other international partners in the context of DRD3.**	Carlos Marinas	IFIC - Valencia (CSIC, UV)	cmarinas@ific.uv.es	IFCA (Santander), IFIC (Valencia), IGFAE (Santiago de Compostela), ITA (Zaragoza)

		DMAPS based tracking and vertexing				
ID0071	Main Tracker and Envelopes	**Development of DMAPS detector systems for vertex and trackers, including engineering and integration aspects. Plan to develop a new particle beam telescope as system demonstrator with other international partners in the context of DRD3.**	Carlos Marinas	IFIC - Valencia (CSIC, UV)	cmarinas@ific.uv.es	IFCA (Santander), IFIC (Valencia), IGFAE (Santiago de Compostela), ITA (Zaragoza)
		Drift tube muon detector				
ID0011	Muons	**Muon detector studies with focus on drift tubes**	Reinhard Schwienhorst	Michigan State University	schwier@msu.edu	University of Michigan
ID0037	Muons	**Development of a muon detector based on square-cell drift tubes, which can be produced economically using commercial extrusion technology. The detector will be designed for tagging muons and identifying long-lived particles.**	Jianming Qian	University of Michigan	qianj@umich.edu	Michigan State, UMass, Harvard, Tufts, UC Irvine,
ID0042	Muons	**Electronics R&D for muon detectors focusing on drift tubes**	Verena Martinez Outschoorn	University of Massachusetts Amherst	vimartin@umass.edu	UMass Amherst, Harvard University, University of Michigan
		MPGD mon detector				
ID0057	Muons	**Development of MPGD production capabilities for FCC-ee in the US (Muons, Main Tracker and Envelopes, Particle ID)**	Klaus Dehmelt	Jefferson Lab	kdehmelt@jlab.org	Jefferson Lab, Florida Tech
ID0077	Muons	**Development of MPGD detectors for central Tracker or Muon system at FCC-ee**	Paolo Iengo	INFN	paolo.iengo@cern.ch	TBD
ID0084	Muons	**Development of resistive Micromegas detectors for the Muon system**	Paolo Iengo	INFN	paolo.iengo@cern.ch	INFN Napoli, INFN RomaTre
		RPC muon detector				
ID0016	Muons	**Study of instrumentation alternatives, focus on RPCs for muon detection**	Oliver Kortner	Max-Planck Institute for Physics	Oliver.Kortner@cern.ch	University of Rome II, Tor Vergata
ID0078	Muons	**Development of innovative RPCs with enhanced timing performance for muon detection**	Giuseppe Iaselli	INFN and Politecnico di Bari	giuseppe.iaselli@ba.infn.it	Laboratorio Nazionale di Frascati, Korea Univer
		Scintillator-based muon detector				
ID0060	Muons	**Muon detector based on scintillator bars and read out using wave-length shifting fiber and SiPM, similar to many neutrino experiments, Belle-II, Mu2e, and other experiments. It does not have gases, operates at under 100 V and has been mass produced.**	Charles Young	SLAC	young@slac.stanford.edu	TBC
		Micro-RWELL muon detector				
ID0076	Muons	**Development of micro-RWELL technology for the Muon system**	Marco Poli Lener	Laboratori Nazionali di Frascati	marco.polilener@lnf.infn.it	Sez. INFN Bologna, Sez. INFN Ferrara, Sez. INFN Torino
		Embedded FPGA				
ID0045	Readout/DAQ/Electronics	**Embedded FPGAs offer reconfigurable digital logic in an ASIC, enabling machine learning for low-latency/low-power applications. We aim to explore eFPGA applications to FCCee, from front-end readout to common electronics and hardware accelerators.**	Julia Gonski	SLAC National Accelerator Laboratory	jgonski@slac.stanford.edu	SLAC, LBNL, Baylor, Fermilab, UHawaii, UMichigan
		General software				
ID0029	Software	**Contributions to framework improvements, full simulation, reconstruction, and end-analysis tools.**	Lothar Bauerdick	Fermi National Accelerator Laboratory	bauerdick@fnal.gov	-
		TDAQ concepts				
ID0058	TDAQ	**Emerging heterogeneous processing for future HEP experiments. This R&D project will evaluate modern and emerging computing architectures for future HEP data processing systems. Such computing would be beneficial for triggerless readout DAQ systems.**	Zeynep Demiragli	Boston University	zeynep.demiragli@cern.ch	BU, The Ohio State, FNAL, ANL, BNL, SLAC
ID0017	Trigger and DAQ	**Study of trigger concepts (e.g. FPGA vs. CPU/GPU farm)**	Sandra Kortner	Max Planck Institute for Physics	sandra@mpp.mpg.de	UMass Amherst (t.b.c)
		TDAQ, including ML applications				
ID0072	Main Tracker and Envelopes	**Building on the experience / contribution to CMS and CMS Upgrades – and in particular high throughput digital electronics and algorithms. Most of the potential effort is currently focused on completing the latter.**	Mark Pesaresi	Imperial College London	mark.pesaresi01@imperial.ac.uk	TBD
		Autonomous systems are essential for near-100% uptime, rapid calibrations, and minimal intervention amid rising data rates and detector complexity. We aim to leverage AI/ML to develop				

		TDAQ, including ML applications				
ID0072	Main Tracker and Envelopes	**Building on the experience / contribution to CMS and CMS Upgrades – and in particular high throughput digital electronics and algorithms. Most of the potential effort is currently focused on completing the latter.**	Mark Pesaresi	Imperial College London	mark.pesaresi01@imperial.ac.uk	TBD
ID0048	Trigger/DAQ	**Autonomous systems are essential for near-100% uptime, rapid calibrations, and minimal intervention amid rising data rates and detector complexity. We aim to leverage AI/ML to develop self-diagnosing, self-calibrating, and self-running DAQ systems.**	Rainer Bartoldus	SLAC National Accelerator Laboratory	bartoldu@slac.stanford.edu	SLAC, UChicago
ID0046	Trigger/DAQ	**The development of real-time machine learning can enable advanced trigger and data acquisition systems capable of intelligent, efficient, and/or autonomous operations. Studies are planned for online ML in heterogenous hardware systems.**	Julia Gonski	SLAC National Accelerator Laboratory	jgonski@slac.stanford.edu	SLAC
ID0066	Trigger/DAQ	**Development of real-time machine learning, including exploring the usage of commercial heterogeneous devices**	Haider Abidi	BNL	sabidi@cern.ch	TBD
ID0068	Trigger/DAQ	**Explore using ML-based algorithms with FPGAs on front-end electronics and in the data-acquisition / trigger chain.**	Chris Meyer	Indiana University	cjmey@iu.edu	TBD
ID0081	Trigger/DAQ	**We are interested in general triggering and data acquisition strategies for FCC. Would like to benefit from our current work on triggering algorithms (including ML) and data compression on different hardware platforms (CPU vs FPGS...).**	Alan Watson	University of Birmingham	atw@hep.ph.bham.ac.uk	TBD
ID0082	Trigger/DAQ	**On-detector trigger system and calorimeter readout electronics and fast data transfer**	Ryszard Stroynowski	Ryszard Stroynowski	ryszard@physics.smu.ed	Columbia University, University of Texas - Austi
ID0092	Trigger/DAQ	**Interest in trigger and data acquisition for FCC. Real-time algorithm developments (including with ML). Heterogeneous computing.**	Anna Sfyrla	University of Geneva	anna.sfyrla@cern.ch	TBD
		CMOS based vertex detector				
ID0069	Vertex Detector	**Light weight Vertex detector design, mechanical integration and performance**	Fabrizio Palla	INFN Pisa	Fabrizio.Palla@cern.ch	Pisa, Perugia, Milano, Padova, Torino, Trieste, Frascati, Bari, Genova
ID0019	Vertex Detector	**FCC Snail-shape vErtEx Detector (FCC-SEED): Project for a Vertex Detector for FCCee**	Auguste BESSON	Institut Pluridisciplinaire Hubert Curien - CNR	auguste.besson@iphc.cnrs.fr	IPHC-Strasbourg, CPPM-Marseille, APC-Paris, IP2I-Lyon
		Vertexing and timing				
ID0010	Vertex Detector	**We are interested in Silicon detector R&D (MAPS, LGAD) edge computing using novel AI/ML methods and study of interconnect technologies.**	Mathieu Benoit	ORNL	benoitm@ornl.gov	ORNL, University of Tennessee, University of Kansas
ID0036	Vertex Detector	**Swiss advancements towards vertex detectors for FCC-ee: MAPS R&D (within DRD3), vertex detector design and engineering, studies towards vertex detectors with precision timing or inside the beam pipe**	Florencia Canelli	University of Zürich	florencia.canelli@cern.ch	University of Zürich, ETH Zürich, Paul Scherrer Institute (PSI)
ID0047	Vertex Detector	**Design and simulation of MAPS (TJ 65nm) components for vertex and tracking. Key deliverables include high-performance low-power TDC enabling sub-ns timing resolution, and innovative research to achieve breakthrough improvements in granularity.**	Caterina Vernieri	SLAC	caterina@slac.stanford.edu	Brown, MIT
ID0098	Vertex Detector	**Development of MAPS for the vertex detector**	Alessandro Tricoli	BNL	atricoli@bnl.gov	FNAL, KEK
		Silicon sensor charcterisation and test				
ID0040	Vertex Detector	**Characterization of sensors and chips, collaborating with groups that already have prototypes working (SLAC, Fermilab, MIT?, CERN?), to provide feedback for the next design iterations.**	Valerio Dao	Stony Brook University	valerio.dao@cern.ch	to be defined
ID0041	Vertex Detector	**We propose a new telescope setup to study the performance of new silicon sensors at one of the available beam lines (Fermilab? BNL? CERN?), based on our expertise in building telescope setups and interfacing them with different types of DUTs/chips.**	Stony Brook University	Valerio Dao	valerio.dao@cern.ch	to be defined

		Vertex detector read-out				
ID0054	Vertex Detector	**Data processing and readout of Si pixel detectors (MAPS)**	Alexander Paramonov	Argonne National Laboratory	aparamonov@anl.gov	ANL, FNAL, LBNL, SLAC
ID0055	Vertex Detector	**fiber-to-chip readout of Si MAPs**	Alexander Paramonov	Argonne National Laboratory	aparamonov@anl.gov	ANL, FNAL, LBNL
ID0063	Vertex Detector	**R&D for Electronics/readout of Si pixel detectors (MAPS)**	Anyes Taffard	UC Irvine	ataffard@uci.edu	LBNL, SLAC, ANL, FNAL
ID0065	Vertex Detector	**Develop the ASIC for the wireless communication between the vertex detector and the control room.**	K.K. Gan	The Ohio State University	gan@mps.ohio-state.edu	DRD7 Collaborators
ID0103	Vertex Detector	**Wireless communications within the vertex detector**	Ben Kilminster	University of Zurich	ben.Kilminster@physik.uzh.ch	University of Zurich (UZH), Zurich University of Applied Sciences (ZHAW)
ID0105	Vertex Detector	**Development of smart chips (FPGAs, ASICs) on vertex detector for data reduction**	Ben Kilminster	University of Zurich	ben.kilminster@physik.uzh.ch	University of Zurich (UZH), Zurich University of Applied Sciences (ZHAW)
		MDI				
ID0030	Machine Detector Interface	**Perform simulations of beam induced backgrounds at various offshore Higgs Factory concepts to optimize machine detector interface and predict electronics requirements in various accelerator configurations.**	Lindsey Gray	Fermi National Accelerator Laboratory	lagray@fnal.gov	SLAC, MIT, Brown
		MDI - IR				
ID0088	Machine Detector Interface	**Design of the interaction region, including beam pipes, IR magnets, vertex and lumical integration. Beam induced backgrounds studies and mitigation. Detector integration and maintenance.**	Manuela Boscolo	INFN-LNF / Manuela Boscolo	manuela.boscolo@lnf.infn.it	Frascati, Pisa, CERN, BNL, SLAC
		Theory, generators				
ID0014	Software	**Theoretical Calculations, Software (MC generators, KKMCee, BHWIDE, Herwig), AI**	Andrzej Siodmok	Jagiellonian University	andrzej.siodmok@uj.edu.pl	IFJ PAN, Silesian University
ID0006	Theoretical Calculations	**Theoretical Calculations**	Prof Dr Johannes Bluemlein	Deutsches Elektronen-Synchrotron	Johannes.Bluemlein@desy.de	University of Zuerich, MPI Munich, University Hamburg
ID0007	Theoretical Calculations	**Theoretical Calculations**	Prof Dr Johannes Bluemlein	Deutsches Elektronen-Synchrotron	Johannes.Bluemlein@desy.de	Falcultad de Físisca, Universidad Autónoma de Zacatecas
ID0008	Theoretical Calculations	**Theoretical Calculations**	Universidad Autónoma de Za	Facultad de Física	alexgu@fisica.uaz.edu.mx	Facultad de Física, Universidad Autónoma de Zacatecas
ID0009	Theoretical Calculations	**Theoretical Calculations**	Facultad de Ciencias Químic	Universidad Autónoma de Zacatecas	mahernan@uaz.edu.mx	Ciencias Químicas, Universidad Auónoma de Zacatecas
ID0025	Theory	**Assistance with simulation efforts and estimation of theory systematics arising from perturbative QCD calculations and hadronization effects. New physics effects.**	Stefan Hoeche	Fermi National Accelerator Laboratory	shoeche@fnal.gov	-
		Physics studies				
ID0026	Physics Studies	**Analysis benchmark studies and algorithm development based on Higgs and BSM measurements to optimize physics performance for detector benchmarks associated with dual readout calorimetry, silicon vertex detector and thin tracker.**	Daniel Elvira	Fermi National Accelerator Laboratory	daniel@fnal.gov	-
ID0018	Physics Studies	**Higgs physics potential, in particular CP studies**	Sandra Kortner	Max Planck Institute for Physics	sandra@mpp.mpg.de	to be defined
ID0044	Physics Studies	**Coupling on Higgs hadronic decays**	George Iakovidis	Brookhaven National Laboratory	giakovidis@bnl.gov	CERN, Brown, MIT
ID0075	Physics Studies	**uilding on the experience / contribution to CMS and CMS Upgrades - and in particular Higgs studies. Most of the potential effort is currently focused on completing the latter.**	Nick Wardle	Imperial Coillege London	n.wardle09@imperial.ac.uk	TBD
ID0020	Physics Studies	**Studies within QCD: energy evolution of event shapes, precision determination of strong coupling constant. Top quark physics in context of the SMEFT with a global EFT fit.**	Vitalii Okorokov	National Research Nuclear University MEPhI	Vitaly.Okorokov@cern.ch	
ID0021	Physics Studies	**I am interested in new physics searches at FCCee with ML methods.**	Kyoungchul Kong	University of Kansas	kckong@ku.edu	University of Kansas
ID0090	Physics Studies	**Quantum tomography at the Z peak: entanglement, Bell inequalities violation and anomalous couplings.**	Luca Marzola	KBFI	luca.marzola@cern.ch	KBFI (Tallinn), University of Trieste
ID0091	Physics Studies	**NLO support to the precision program of FCC-ee: matching the experimental accuracy with theoretical determinations of Higgsstrahlung and WW fusion for candidate New Physics extensions.**	Carlo Marzo	NICPB/KBFI (Tallinn)	carlo.marzo@kbfi.ee	NICPB Tallinn, Tartu University
ID0093	Physics Studies	**Searches for FIPs with general-purpose and possible dedicated detectors**	Anna Sfyrla	University of Geneva	anna.sfyrla@cern.ch	UniGe, EPFL, ETHZ, UZH
ID0079	Higgs factory with CP violation,	Physics analysis, Higgs factory with CP violation, Detector performance, Theoretical Calculation	Avinanda Chaudhuri	Brahmananda Keshab Chandra College	avi.mathphysics@gmail.com	Brahmananda Keshab Chandra College

Status des EoI et des endorsements par les DU

French EoI's

EoI-1) SPEED : EoI Nationale
portée par A. Besson contenant tous les groupes français intéressés par du MCMOS et du VD.

EoI-2) "Towards Time of flight MCMOS tracking layers for a detector at FCC-ee" (EoI nationale) Irfu et Lyon:
portée par Ph. Schwemling, G. Boudoul responsable IN2P3

EoI-3) ALLEGRO calo: (EoI internationale)
Responsable IN2P3: N. Morange

EoI-4) "calo haute granularité version FCC, SiW" (EoI internationale) V. Boudry responsable FCC-IN2P3 (portée par V. Boudry)

EoI-5) dual readout crystal (EoI internationale)
S. Gascon ? est ce approuvé par l'IP2I ?

EoI-6) GRAINITA (orsay-clermont)
(EoI Nationale) portée par S Monteil

EoI-7) EoI SDHCAL (Lyon)
(EoI internationale) portée par I. Laktineh

EoI-8) Development of an ultra-light drift chamber with PID capabilities for the IDEA detector Gabriel Charles

4 concepts (DC):

DC-A) ALLEGRO
contact: N. Morange + G. Marchiori + GB
(l'objectif étant ici aussi d'explorer rapidement dans la communauté qui d'autre serait interessé à signer/contribuer à ce DC)

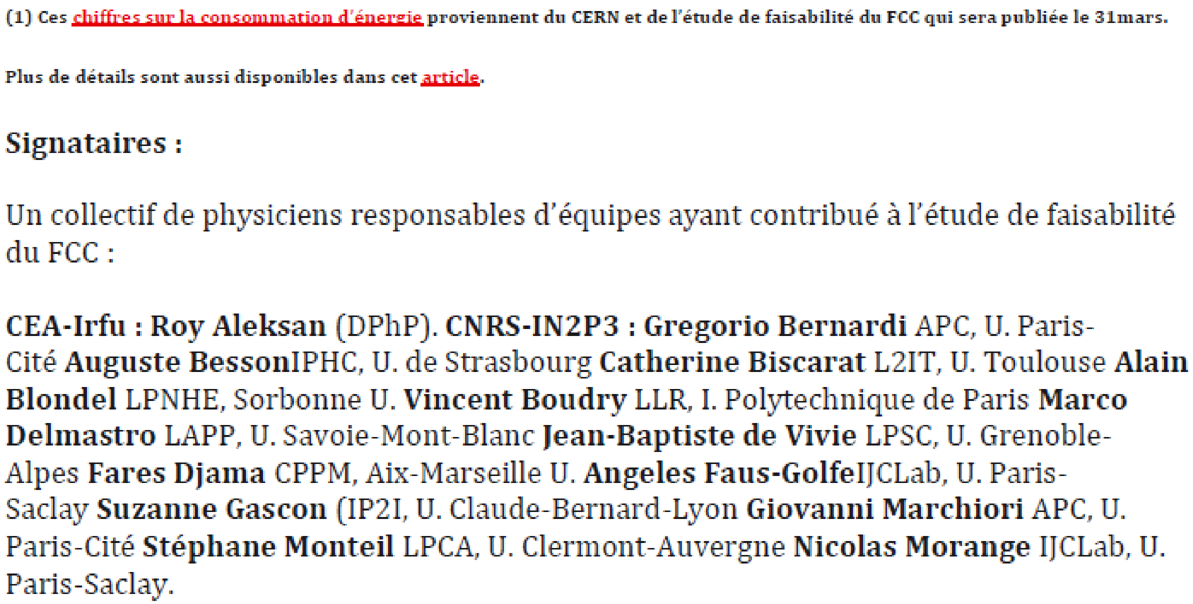
DC-B) ILD-CC
contact;: V. Boudry + GB (")

DC-C) CLD
contact: J. Andrea + GB (")

DC-D) IDEA
contact: S. Gascon + GB (")

Debrief de la rédaction

de la réponse à Libé



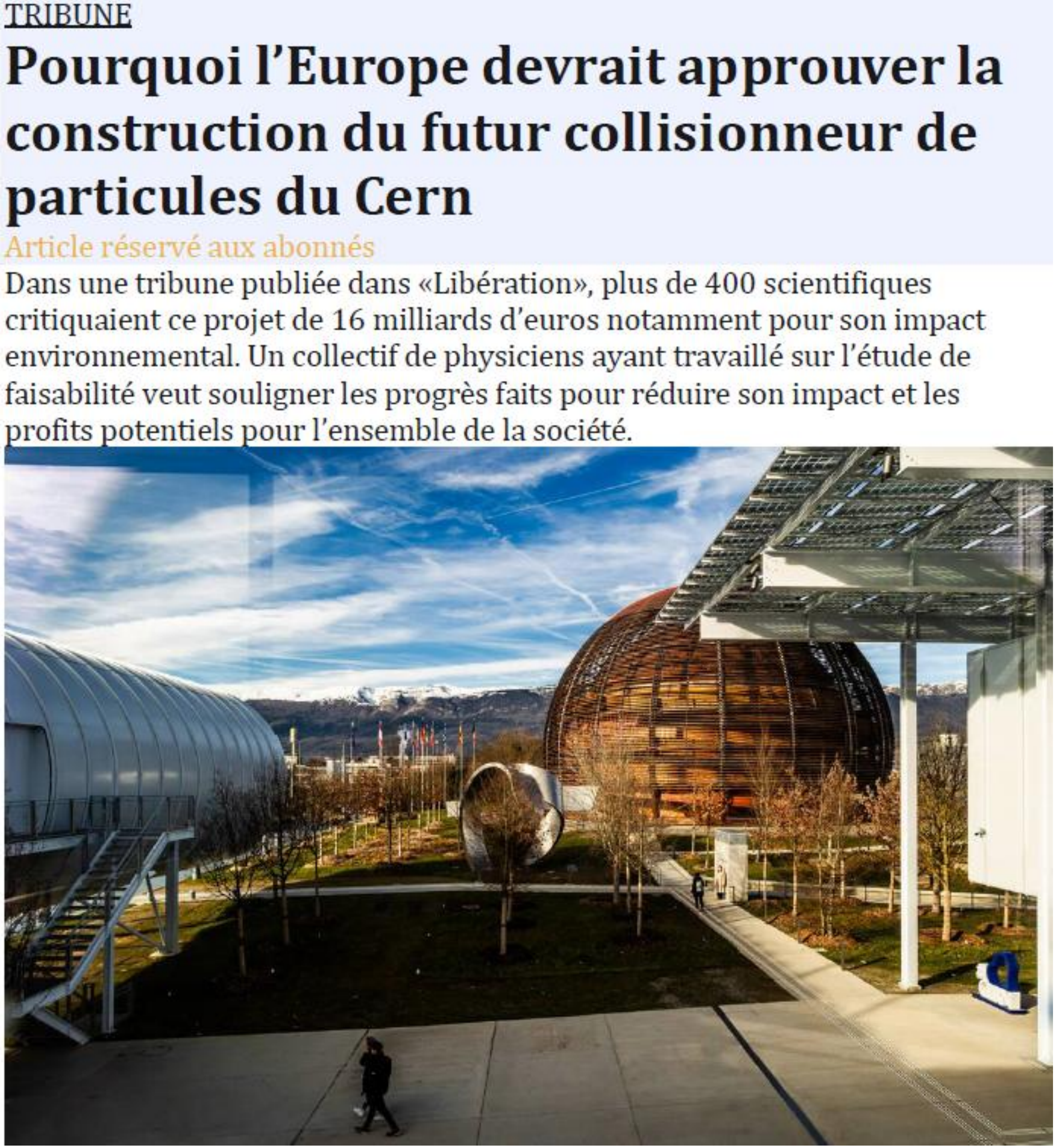
(1) Ces chiffres sur la consommation d'énergie proviennent du CERN et de l'étude de faisabilité du FCC qui sera publiée le 31mars.

Plus de détails sont aussi disponibles dans cet article.

Signataires :

Un collectif de physiciens responsables d'équipes ayant contribué à l'étude de faisabilité du FCC :

CEA-Irfu : Roy Aleksan (DPhP). **CNRS-IN2P3 : Gregorio Bernardi** APC, U. Paris-Cité **Auguste Besson**IPHC, U. de Strasbourg **Catherine Biscarat** L2IT, U. Toulouse **Alain Blondel** LPNHE, Sorbonne U. **Vincent Boudry** LLR, I. Polytechnique de Paris **Marco Delmastro** LAPP, U. Savoie-Mont-Blanc **Jean-Baptiste de Vivie** LPSC, U. Grenoble-Alpes **Fares Djama** CPPM, Aix-Marseille U. **Angeles Faus-Golfe**IJCLab, U. Paris-Saclay **Suzanne Gascon** (IP2I, U. Claude-Bernard-Lyon **Giovanni Marchiori** APC, U. Paris-Cité **Stéphane Monteil** LPCA, U. Clermont-Auvergne **Nicolas Morange** IJCLab, U. Paris-Saclay.



TRIBUNE

Pourquoi l'Europe devrait approuver la construction du futur collisionneur de particules du Cern

Article réservé aux abonnés

Dans une tribune publiée dans «Libération», plus de 400 scientifiques critiquaient ce projet de 16 milliards d'euros notamment pour son impact environnemental. Un collectif de physiciens ayant travaillé sur l'étude de faisabilité veut souligner les progrès faits pour réduire son impact et les profits potentiels pour l'ensemble de la société.

- Tribune anti-fcc (25/2)

- Proposition de répondre. AB avait déjà commencé à préparer une longue lettre de réponse aux SeR

- CNRS: pas de réponse officielle, donc proposition de repartir de là, en individuel, faire un résumé et développer certains points

- Discussion sur les signatures → IN2P3 voulait nbre restreint → GB a proposé même liste que pour note GT01 (18 signataires)

- GB/GM ont fait le résumé, itérations avec AB/PJ, puis avec les FCC-contacts

- Liste des signataires jugée trop longue et on peut remercier Ziad, Bogdan, Gaelle, Didier d’avoir accepté de ne pas signer.

- Publication on-line OK
- Publication papier improbable (papier 25% trop long) mais papier sera cité dans un article à venir dans Libé

- Information à toutes les personnes sur **FCC-phys-all (260 personnes)**

➔ Ce n’est pas un forum donc les questions éventuelles sont traitées en liste plus réduite

Evolution organisation avec Team-Leader/Deputy Team Leader

Faites vous enregistrer sur le grey book

Mailing Lists

- FCC-PHYS-ORG : liste pour les fcc-contacts, initialement 1 contact / labo, mais elle a grossi, now 20 persons for 12 labs,
  IN2P3 et IRFU
- FCC-PED-1 : permanents ayant signé la note GT01 (« FCC-France ») environ 60 physiciens et quelques ingé
- FCC-PED-2 : même chose avec Postdoc et étudiants en plus (70 personnes)
- FCC-PHYS-ALL: liste d'information pour personnes interessées par news sur FCC (260 personnes)

- NEW: FCC-PHYS-IN2P3: chefs de groupe, 1 par labo (exception pour Labo resp. IN2P3)
  dans les meetings de cdg, les cdg peuvent se faire remplacer.

Discussions de type forum peuvent avoir lieu dans PHYS-ORG ou PED-2