





# **ECFA Early Career Researchers' Workshop | France**

APC, Paris 8 October 2024

Bruno Alves, <u>Guillaume Pietrzyk</u>, Louis Portales



## **ECFA: European Committee for Future Accelerators**

- ECFA: Scientific advisory body whose goal is to shape the future of particle physics in Europe (since 1963!)
- Goals:
  - Coordinate and promote collaborative efforts in HEP research
  - Provide recommendations on the design, construction and operation of particle accelerators
  - Engage in discussions about future facilities
- Composition:
  - Chair + Secretary
  - General Assembly (**Plenary ECFA**)
  - Executive Board (**Restricted ECFA**)
- <u>Panels:</u> Working groups providing recommendations on various topics (Physics, Training, ECR, infrastructure)

#### **ECFA: Early Career Research Panel**

- <u>Definition of Early Career (EC)</u>: PhD students and postdocs with non-permanent contracts, or researchers with up to 8 years after obtaining the PhD.
- <u>Objective of the Panel</u>: Discuss all aspects that contribute in a broad sense to the future of particle physics
- ~2-3 ECR representatives per country
- Work done in Working Groups:
  - Software and Machine Learning for Instrumentation
  - Future Colliders
  - Career Prospects and Diversity in Physics
- Mandates of 2 years (extendable with another 2 years)
- 3-4 panel meetings per year

## **European Particle Physics Strategy Update**

• Mail by Eliezer Rabinovici, President of CERN Council (28th March):

"On 21 March 2024, the CERN Council decided to launch the process for updating the European Strategy for Particle Physics. I am pleased to announce that the deadline for submitting written input has been set for 31 March 2025, with a view to concluding the European Strategy update process in June 2026 ..."

- <u>Goal</u>: Develop a visionary and concrete plan through the realisation of the next flagship project at CERN
- The strategy **should include the preferred option for the next collider at CERN** and alternative options to be pursued if the preferred plan turns out not to be feasible or competitive.

## **Role of ECRs for future colliders**

- <u>We are talking about long timescales!</u> Many people taking decisions will be retired when the future facilities will be operational.
- ECRs have a say and should give their opinion on the future!
- These last months, <u>ECRs have organised meetings</u> in their own countries to present their current work



#### **NETHERLANDS**



12–13 Sept 2024 Ghent Europe/Brussels timezone	Enter your search term
Overview	
Call for Abstracts	
Timetable	
Timetable Contribution List	
Contribution List	

#### **ITALY**

#### **First ever french meeting!**

14:00	Welcome Bruno Alves, Guillaur	me PIETRZYK, Louis Porta 🧭
	Amphi Pierre-Gilles de Gennes, APC	14:00 - 14:10
	ECFA goals & structure	Gregorio BERNARDI
	Amphi Pierre-Gilles de Gennes, APC	14:10 - 14:30
	Overview of detector R&D	Didier Contardo
	Amphi Pierre-Gilles de Gennes, APC	14:30 - 15:00
15:00	Physics landscape at future colliders	Stephane Monteil
	Amphi Pierre-Gilles de Gennes, APC	15:00 - 15:30
	Coffee break	
	Amphi Pierre-Gilles de Gennes, APC	15:30 - 15:45
	QCD & Lund Jet Plane studies at FCC-ee	Lata Panwar et al. 🥝
	Amphi Pierre-Gilles de Gennes, APC	15:45 - 16:00
16:00	Proposal for DMAPS of the Belle II Vertex Detector	Roua Boudagga et al. 🥝
	Amphi Pierre-Gilles de Gennes, APC	16:00 - 16:15
	Flavours (and opportunities) at FCC-ee	Lars Röhrig
	Amphi Pierre-Gilles de Gennes, APC	16:15 - 16:30
	ALLEGRO ECAL cross-talk emulation and measurement of the Higgs boson width at FCC-ee	Zhibo Wu 🥝
	Amphi Pierre-Gilles de Gennes, APC	16:30 - 16:45
	SDHCAL evolution : Recent developments and algorithmic improvements for the APRIL Particle Tanguy PASQUIER	le Flow
17:00	A novel grain calorimeter: GRAiNITA	Yingrui Hou et al.
	Amphi Pierre-Gilles de Gennes, APC	17:00 - 17:15
	Open discussion	
	Amphi Pierre-Gilles de Gennes, APC	17:15 - 18:00

Big thanks to all speakers!!!

Open discussion: You can still post your anonymous question: <u>https://app.sli.do/event/efpBq8Vu1XT</u> <u>DgzVLiisoC1/live/questions</u>

6:30pm: <u>Public event</u> at Odéon on the FCC project (in french)!