





Early Career Researcher perspective

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Objectives of ECFA ECR WG?



Many acronyms in this title:

- ► ECFA: European Committee for Future Accelerators, should be clear by now;
- ► ECR: Early Career Researchers:
 - Non-permanent position or <10 years after PhD.
- WG: Working Group
 - Since the last Update of the European Strategy for Particle Physics, a panel was formed (see mandate here):
 - "to discuss all aspects that contribute in a broad sense to the future of the research field of particle physics. In its advisory role to ECFA, the panel reports to ECFA on a regular basis"
 - There is up to 3 representative per country, here is an example for France (see here for more infos):
 - Bruno ALVES, PhD student, CMS
 - Guillaume PIETRZYK, Postdoc, LHCb
 - Louis PORTALES, Staff, CMS
 - A mattermost channel has been created to foster the discussion and the organisation for the white paper!
 - A dedicated session was organised during the previous ECFA meeting in Paris open to everyone remote.

To mention 1 ECR member acts as secretary in each ECFA WGs.



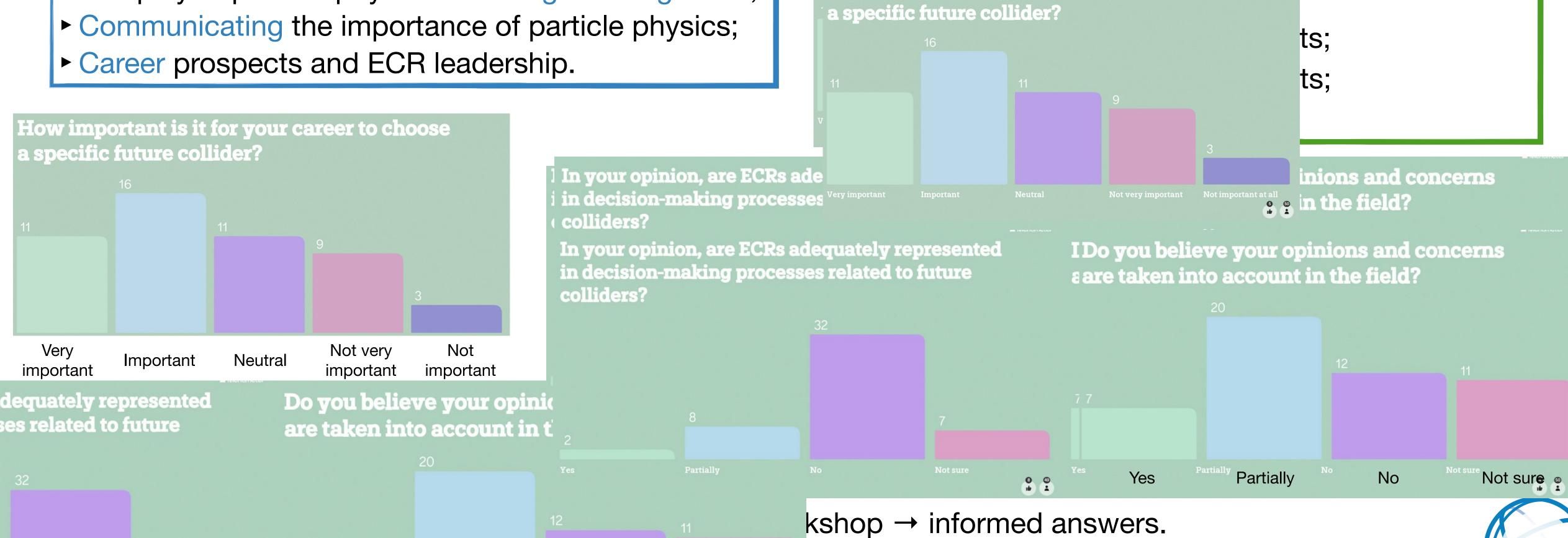
A few conclusions from Paris meeting



the future of

Some sub-groups formed to prepare the white paper:

- ► Future colliders;
- Future particle physics experiments beyond colliders;
- ► Interplay of particle physics with neighbouring fields;



How important is it for your career to choose

How important is it for your career to choose

a specific future collider?

ECR wider survey



In 2022/2023 a wider survey was conducted by the FCFA FCR Pannel to

understand career prospect field, results can be found a

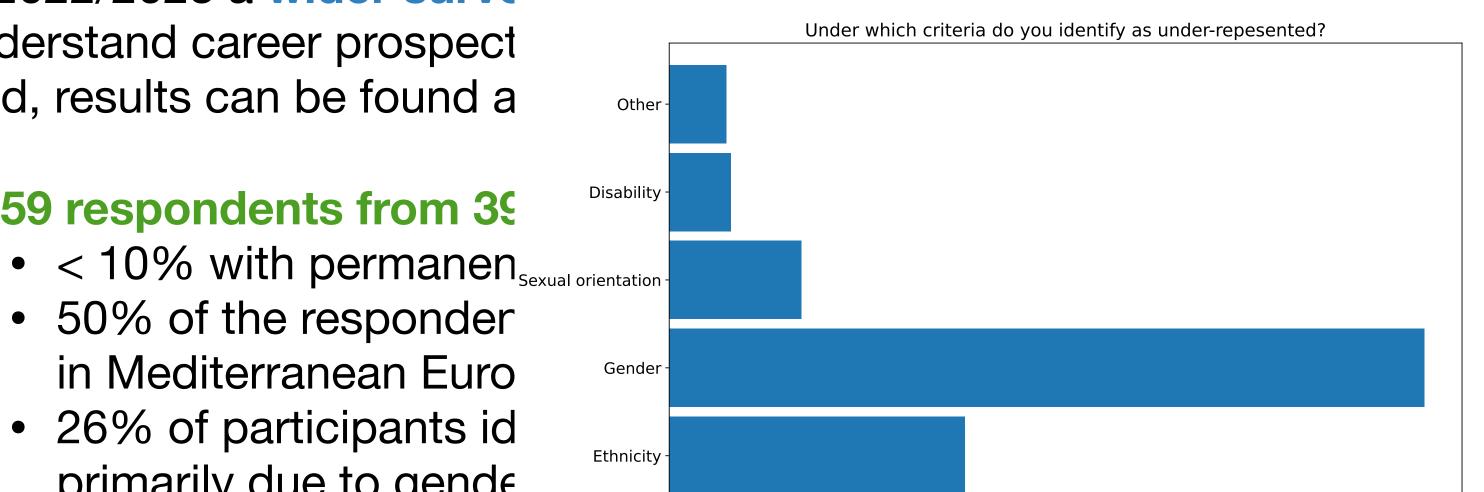
► 759 respondents from 39

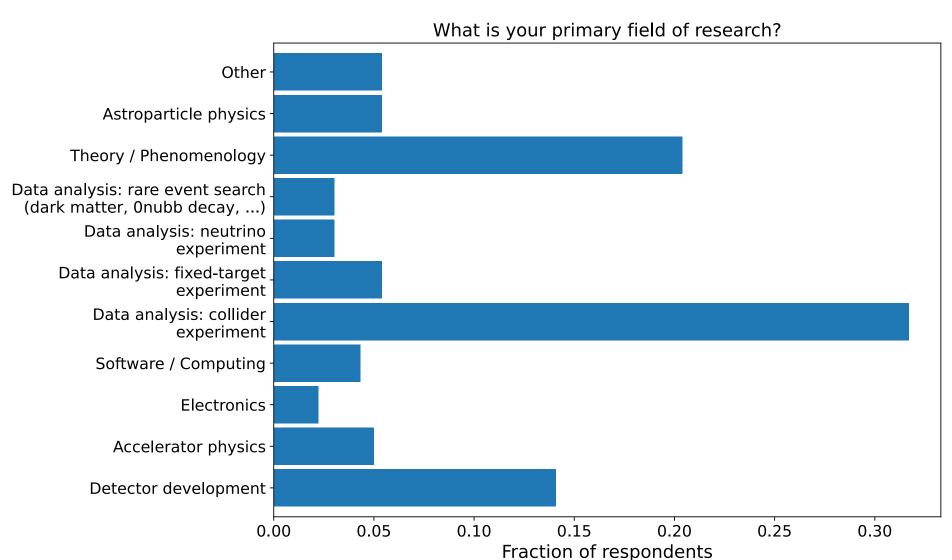
• 50% of the responder

26% of participants id

in Mediterranean Euro

primarily due to gende





► Career perspectives and support:

• Limited awareness of available funding and training resources; wolved

0.1

• Most ECRs do not discuss career prospects often enough with supervisors or senior researchers.

Fraction of respondents

0.4

► Work-life balance:

background.

High importance placed on flexible working hours and a positive work environment;

0.2

• Stress and frequent overtime quoted, with work-life balance and job stability to be improved.

Career mobility and challenges periment Data analysis: neutrino Data analysis:

• Family and social challenges were prevalent for those who relocated.

Accelerator physics

Detector development

Many respondents expressed and esire to return to their home countries eventually.

Experiment exists/is running

Louis D'Eramo (LPCA) - 13/11/24 - I

Selected interviews



On top of the macro perspective, I conducted a few selected interviews in my group with different ECRs:

- ► 30' to 1h discussion on various topics: open answers with details
 - hard to generalise but useful as inputs of reflexions.
- ▶ Biases: mainly French persons, only ATLAS group, small batch and ... I never studied social sciences!

Very little knowledge on existing projects:

FCC quoted at best,

Decision process considered opaque,

Needs history on process for LEP/LHC

Big collaborations:
have pros and cons →still worth
pursuing for the future

How to get involved: balance between actual and future projects.

Location:

Europe is quite central,
Switzerland is seen as neutral,
geopolitics can play a role in
decision

Physics case:

Not thrilled by precision measurement, need to be agile and open for any NP that would show up

No reflexion on economical and ecological cost of the machines. I perceived some interest in discussions but some limitations for what concerns external consequences outside of physics or the internal organisation.