ECFA ECR perspective

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For the ECFA Early-Career Researchers Panel
2020 Update of the European Strategy for Particle Physics

Year-long process, 20 strategy statements, most important probably:

\[ e^+e^- \] Higgs factory as highest-priority next collider with long term ambition for proton-proton collider at the highest achievable energy

But there is also this statement:

Particle physics, with its fundamental questions and technological innovations, attracts bright young minds. Their education and training are crucial for the needs of the field and of society at large. For early-career researchers to thrive, the particle physics community should place strong emphasis on their supervision and training. Additional measures should be taken in large collaborations to increase the recognition of individuals developing and maintaining experiments, computing and software. The particle physics community commits to placing the principles of equality, diversity and inclusion at the heart of all its activities.
Short history of ECFA ECR

The ECFA ECR panel was created as a follow-up to the ECFA Early-Career Researchers input to the 2020 Update of the European Strategy for Particle Physics (rather ad-hoc, not a panel)

The objective of the ECFA Early-Career Researchers (ECR) Panel is for its members 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. An annual report of the ECFA ECR Panel is added as a standing item to the agenda of Plenary ECFA meetings.

→ The ECFA ECR panel is tightly linked with the Update of the European Strategy → Next time we should be in the loop from the very beginning
ECFA ECR Panel composition and activities

- **75 delegates**, 3 from each ECFA country and each major laboratory
  - 5 delegates in Plenary ECFA, 1 delegate in Restricted ECFA
  - From PhD students to young assistant professors
  - Theoreticians, phenomenologists and experimentalists

→ Diversity in cultural background, career and research, trying to represent the whole community

Working groups so far

- Career Prospects and Diversity in Physics, Electron-ion colliders, Detector R&D Networking, Instrumentation R&D, Software/ML applications for future colliders

Activities: See [summary of 2021-2022](#), largest activity probably [ECFA Early-Career Researcher Survey on Training in Instrumentation](#)
New working group: Future colliders WG

Goal: Inform ECRs about future collider options and development, enabling them to shape their own vision on future colliders

Planning a one-day hybrid meeting at CERN for ECRs:

Future colliders for early-career researchers (name not final!)

- Short presentations on prospects, lots of time for discussions
- Can serve as reference information for ECRs about future colliders

Follow-up with national, in-person events on future colliders, for which a blueprint will be presented, directing discussions into the ECFA countries

Takes place September 27th at CERN before the November PECFA meeting
Draft agenda ECR event

Event will include

- Central talks
- Poster session where people can showcase their work on future colliders

The event will be advertised widely, best to subscribe to ecfa-ecr-announcements e-group to make sure you get notified!