

# Early Career Researchers meeting @ FCC Week 2023

Birgit Stapf

30.06.2023 | 20th Future Colliders @ DESY meeting

# ECR meeting @ FCC Week 2023

<b>16:30</b>	→ 16:35	<b>Introduction</b>	🕒 5m
<b>Speaker:</b> Sarah Louise Williams (University of Cambridge (GB))			
			
<b>16:40</b>	→ 16:45	<b>Overview of ECFA and the European strategy</b>	🕒 5m
<b>Speaker:</b> Armin Ilg (University of Zurich)			
			
<b>16:45</b>	→ 16:50	<b>Overview of snowmass process in the US</b>	🕒 5m
<b>Speaker:</b> Julia Lynne Gonski (Columbia University (US))			
			
<b>16:50</b>	→ 17:00	<b>Short introductions to panellists</b>	🕒 10m
Each panelist will provide a short (< 2 minute) introduction to themselves, their involvement in the FCC, and their hopes and concerns about the future of HEP			
<b>Speakers:</b> Abraham Tishelman-Charny (Brookhaven National Laboratory (US)), <b>Andrey Abramov</b> (CERN), <b>Armin Ilg</b> (University of Zurich), <b>Emily Rose Howling</b> (Univ. of Oxford University College (GB)), <b>Julia Lynne Gonski</b> (Columbia University (US)), <b>Tevong You</b> (King's College London)			
<b>17:00</b>	→ 17:30	<b>Moderated panel discussion</b>	🕒 30m
			
<b>17:30</b>	→ 18:00	<b>Broader discussion [including zoom participants]</b>	🕒 30m



[Indico agenda](#)

# General impressions & key points from the discussions

- Session was well attended and well received
  - Especially by (new) PhD students whose projects are fully on FCC topics
    - Were missing such a platform before and feeling isolated (especially compared to their colleagues from LHC experiments)
- Brief introductory talks stressed positively how ECR input and importance is acknowledged and valued in the strategy planning processes, i.e.
  - All introductory plenary talks at the event mentioned crucial role of ECR
  - ECFA has [ECR panel](#) with 75 delegates from diverse backgrounds
  - Survey results and recommendations from ECR organization featured in [own chapter of the Snowmass book](#) (for the first time)

# General impressions & key points from the discussions

- General tone was optimistic and enthusiastic about the future
  - FCC was identified by panelists as the most likely next collider
    - Cost-benefit analysis of FCC project most favourable
  - Does not mean that alternative options aren't needed
    - Technology does not scale even further, cannot repeat the same in the 2100s at even higher energies
  - Suggested change of our language: Less focus on new discoveries, FCC will be an exploration machine to significantly improve our understanding
  - Well aware that any future project will need united support and commitment from the ECR community

# General impressions & key points from the discussions

- ... but doubts and fears were also expressed, mainly:
  - How to ensure that FCC (or any FC efforts) do not detract from LHC?
  - How does one justify working on a project that is so far ahead in the future? Will what is done now even matter in ~50 years time?
  - How to ensure continuity of knowledge and community over such a long time period? Especially when most contracts are short-term and permanent positions & funding are sparse and potentially being reduced even further due to the ongoing global crises?

# ECFA ECR Future Colliders event

- ECFA ECR panel has future colliders working group and is planning hybrid event on 27.09.2023 @ CERN
- Subscribe to mailing list: [ecfa-ecr-announcements](mailto:ecfa-ecr-announcements)

## 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](mailto:ecfa-ecr-announcements) to make sure you get notified!

Timetable

Wed 27/09

09:00	Introduction	14:00	Lunch including poster session
	CERN		CERN
10:00	Coffee	15:00	Different viewpoints
	CERN		CERN
11:00	Challenges	16:00	Coffee
	CERN		CERN
12:00		17:00	People and Money
	CERN		CERN
13:00	Lunch including poster session	18:00	Conclusions and closing remarks
	CERN		CERN

[Slide from Armins talk](#)

# In conclusion

In my eyes, this represents the true success of CERN – not in the discoveries, but in the inspiration and excitement it generates in each new generation. And that is why, to me, their next laboratory to explore the unknown — Future Circular Collider — represents a unique and compelling opportunity.

*J. Hammersley in “CERN 2070 – The Next Generation” @ digital-science*