

Early Career Researcher Session- Introduction



Future Circular Collider Week- 8th June 2023

Sarah Williams (University of Cambridge)

Welcome

- This session has in-person and remote participation from both FCC-active ECRs and ECRs outside FCC.
- This is a great opportunity to discuss openly as a community our hopes and fears for the roadmap ahead, ask questions and start to build networks.
- Please respect the [CERN code of conduct](#) .

LONDON
United Kingdom

05 - 09 June

**FCC
WEEK**
2023

<https://cern.ch/fccweek2023>

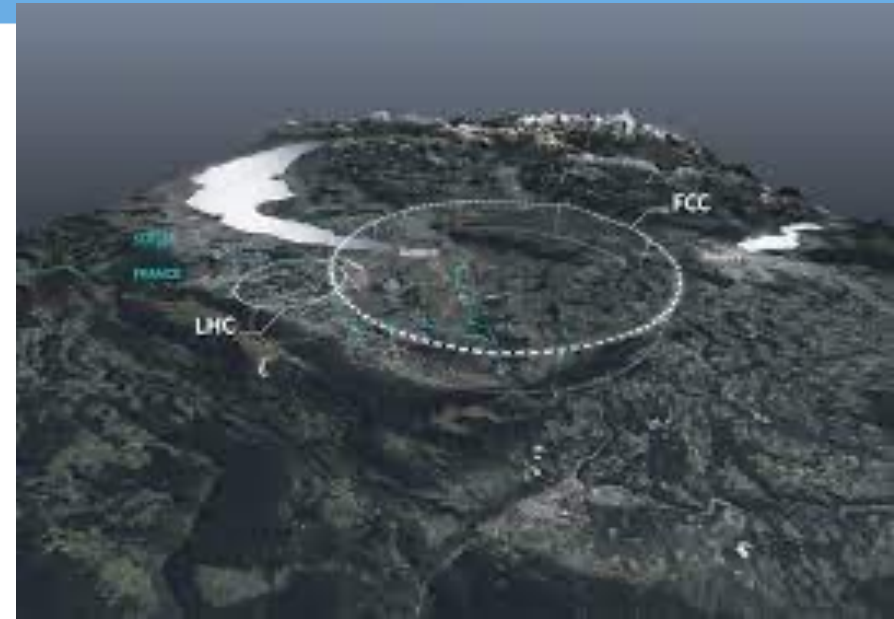


FUTURE
CIRCULAR
COLLIDER



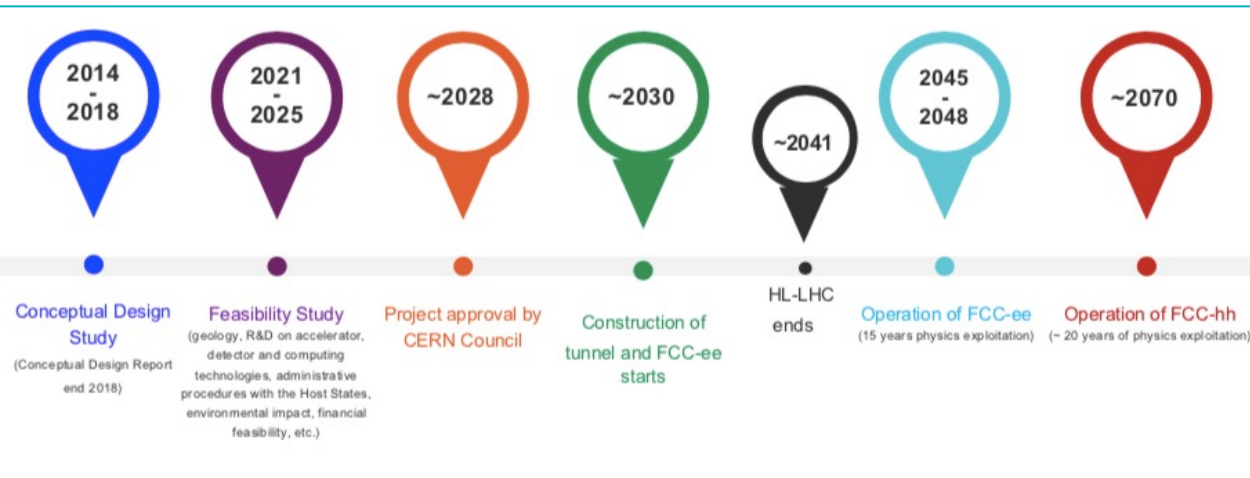
The FCC integrated programme

- FCC-ee: e^+e^- “Higgs factory” including tera-Z capabilities for ultra-precise SM measurements.
- FCC-hh: 100 TeV hadron collider to push the energy frontier an order of magnitude higher than LHC, enabling direct access to high-scale BSM, Higgs self coupling...
- The FCC feasibility study launched in 2021 aiming to provide input by 2025 on the technical and financial feasibility of the project.



Achieving such an ambitious project will require careful planning and collaboration between (civil) engineers, accelerator and detector physicists, software engineers, theorists... and more...

Why an ECR session?



Taken from Fabiola's slides on [Monday](#)


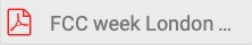
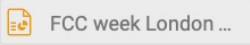


If approved, ECRs will need to take the reins to ensure FCC gets delivered...

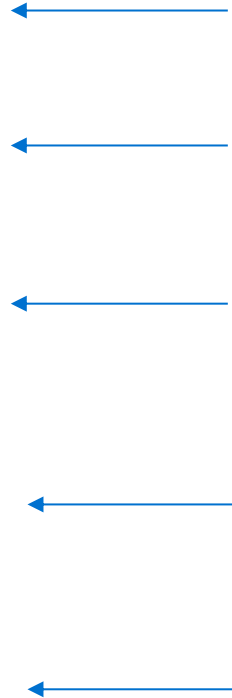
- The long life-cycle of HEP experiments means that ~most people at this workshop will retire before FCC-ee starts taking data.
- We need to transfer expertise to ECRs, and ensure we play a role in planning the route ahead (and then pass knowledge expertise to future generations).

Why an ECR session?

The community wants to listen!

Whilst I didn't count, the crucial role of ECRs, and the importance of ensuring they feel inspired by the road ahead, was mentioned at least once in every plenary talk in the first session on Monday (as well as being discussed elsewhere)

08:30 → 10:25	Monday plenaries: Opening Convener: Ian Shipsey (University of Oxford (GB))
08:30	Welcome address STFC Speaker: Mark Thomson
08:45	Introductory remarks Speaker: Fabiola Gianotti (CERN) 
09:05	A CERN Council perspective on the FCC Speaker: Eliezer Rabinovici (Weizmann Institute of Science (IL))  
09:20	Practical information about the conference Speaker: Guy Wilkinson (University of Oxford (GB)) 
09:25	Key note: Physics perspectives Speaker: Gavin Salam (University of Oxford) 



Outline of session

15:30 → 15:35	Introduction Speaker: Sarah Louise Williams (University of Cambridge (GB))	⌚ 5m	✎
15:40 → 15:45	Overview of ECFA and the European strategy Speaker: Armin Ilg (University of Zurich)	⌚ 5m	✎
15:45 → 15:50	Overview of snowmass process in the US Speaker: Julia Lynne Gonski (Columbia University (US))	⌚ 5m	✎
15:50 → 16:00	Short introductions to panellists 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 Speakers: Abraham Tishelman-Charny (Brookhaven National Laboratory (US)), Andrey Abramov (CERN), Armin Ilg (University of Zurich), Emily Rose Howling (Univ. of Oxford University College (GB)), Julia Lynne Gonski (Columbia University (US)), Tevong You (King's College London)	⌚ 10m	✎
16:00 → 16:30	Moderated panel discussion Google doc with pa...	⌚ 30m	✎
16:30 → 17:00	Broader discussion [including zoom participants]	⌚ 30m	✎

Thanks to all the speakers and panelists for their willingness to participate, and to all of you for attending the session!

- In the Q+A/discussion, we'll start with some questions from the google doc, but also encourage you to raise your (zoom) hand.
- Feel free to also use the google doc to leave thoughts/comments you'd like to share (and feedback for future sessions).