



4rd Forward Physics Facility Meeting Summary and Outlook

Felix Kling (on behalf of the
organization team)



FPF Workshops

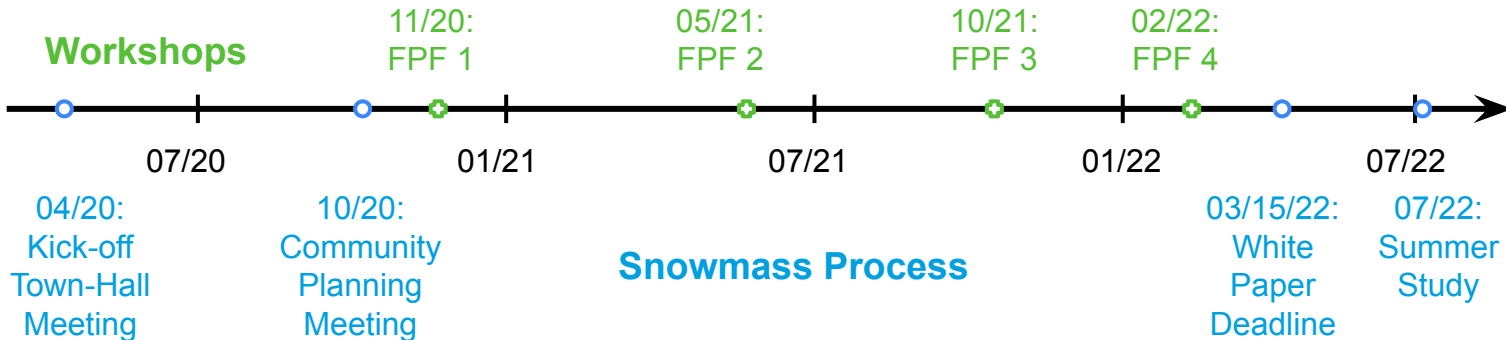
We already had four dedicated FPF workshops in

FPF1: November 2020 (<https://indico.cern.ch/event/955956>)

FPF2: May 2021 (<https://indico.cern.ch/event/1022352>)

FPF3: October 2021 (<https://indico.cern.ch/event/1076733/>)

FPF4: January/February 2022 (<https://indico.cern.ch/event/1110746/>)

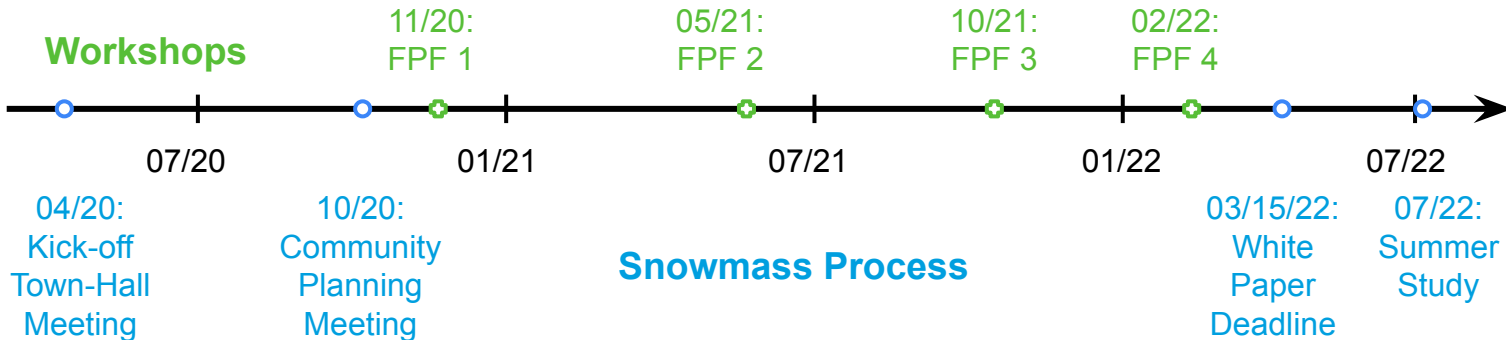


Snowmass Process

We already had four dedicated FPF workshops in

- FPF1: November 2020 (<https://indico.cern.ch/event/955956>)
- FPF2: May 2021 (<https://indico.cern.ch/event/1022352>)
- FPF3: October 2021 (<https://indico.cern.ch/event/1076733/>)
- FPF4: January/February 2022 (<https://indico.cern.ch/event/1110746/>)

FPF study also part of the **Snowmass community planning process**.
The FPF white paper will summarize the FPF efforts.



Documents.

Snowmass Letter of Interest (available [here](#)) ~ 2 pages

- short outline of idea, many of you have signed it
- not published, not on arXiv

Short Paper (available [2109.10905](#)) ~ 75 pages

- first real paper on FPF, submitted to arXiv and Physics Reports
- written over last few months by ~80 authors
- summary of ideas and reference for further studies

Long Whitepaper ~ 300 pages

- more detailed collection of work on FPF related topics
- essentially a Proposal / Letter of Interest for FPF
- to be submitted to arXiv and journal



08/20:
FPF
LOI
Workshops

11/20:
FPF 1

05/21:
FPF 2

09/21:
Short
Paper
10/21:
FPF 3

03/22:
Long
Whitepaper
02/22:
FPF 4

07/20

07/21

01/22

07/22

04/20:
Kick-off
Town-Hall
Meeting

10/20:
Community
Planning
Meeting

Snowmass Process

03/15/22:
White
Paper
Deadline

07/22:
Summer
Study

FPF Whitepaper

FPF Whitepaper Timeline:

- January 19: First draft of all contributions due
- January 31 - February 1: FPF4
- February 7: Final drafts of all contributions due.
- February 21: Editors return 1st complete draft to authors.
- February 28: Authors submit corrections and suggestions.
- March 7: Editors complete final draft.
- March 11: Final document submitted to Snowmass.

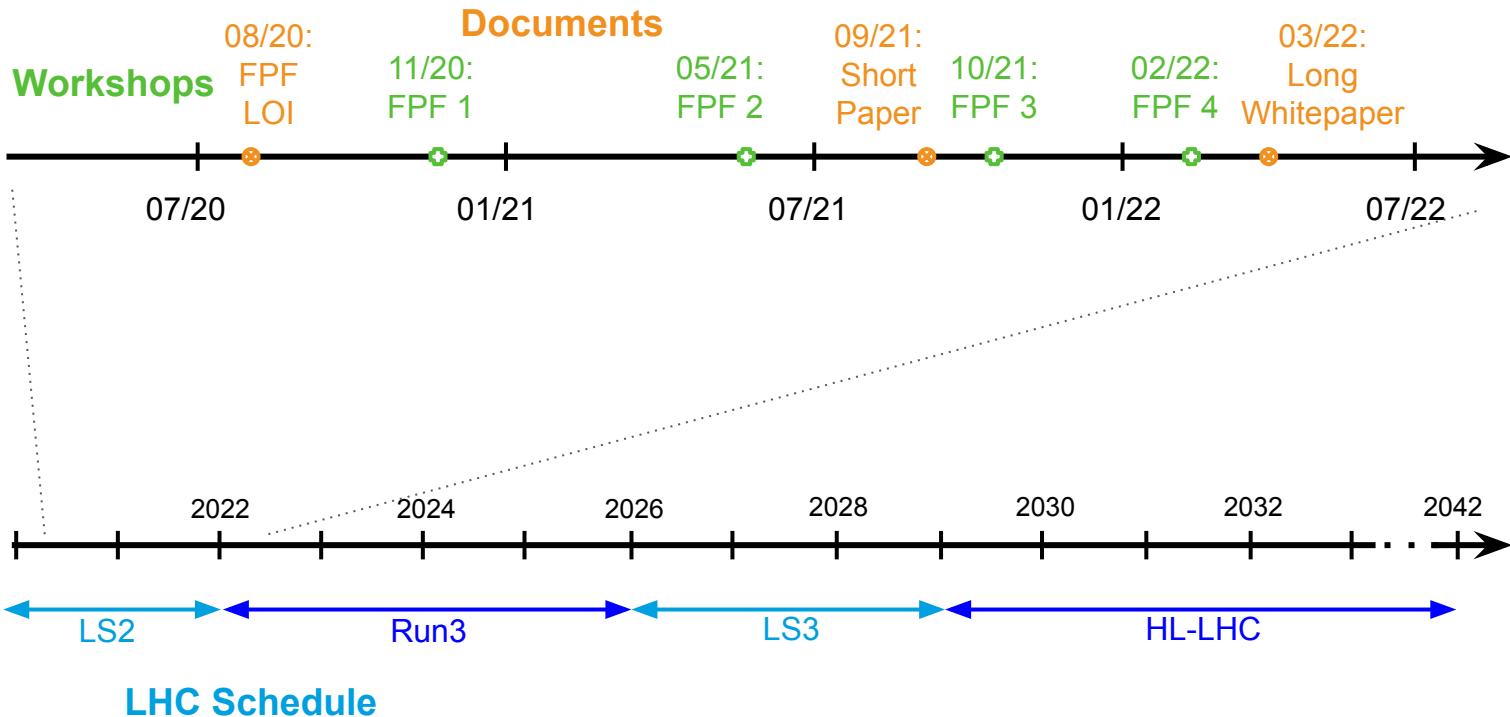
Plans towards Publication:

- The white paper contributions are currently being collected in **overleaf documents** for each section. Contact the relevant editors with questions.
- Given the current contributions, we expect **~300 pages** and **~200 authors**.
- The Snowmass version will include both **authors** and **endorsers** (call to come). Let us know if you have any thoughts on this.
- We plan to submit the final version (without endorsers) to **arXiv** and a **journal**.

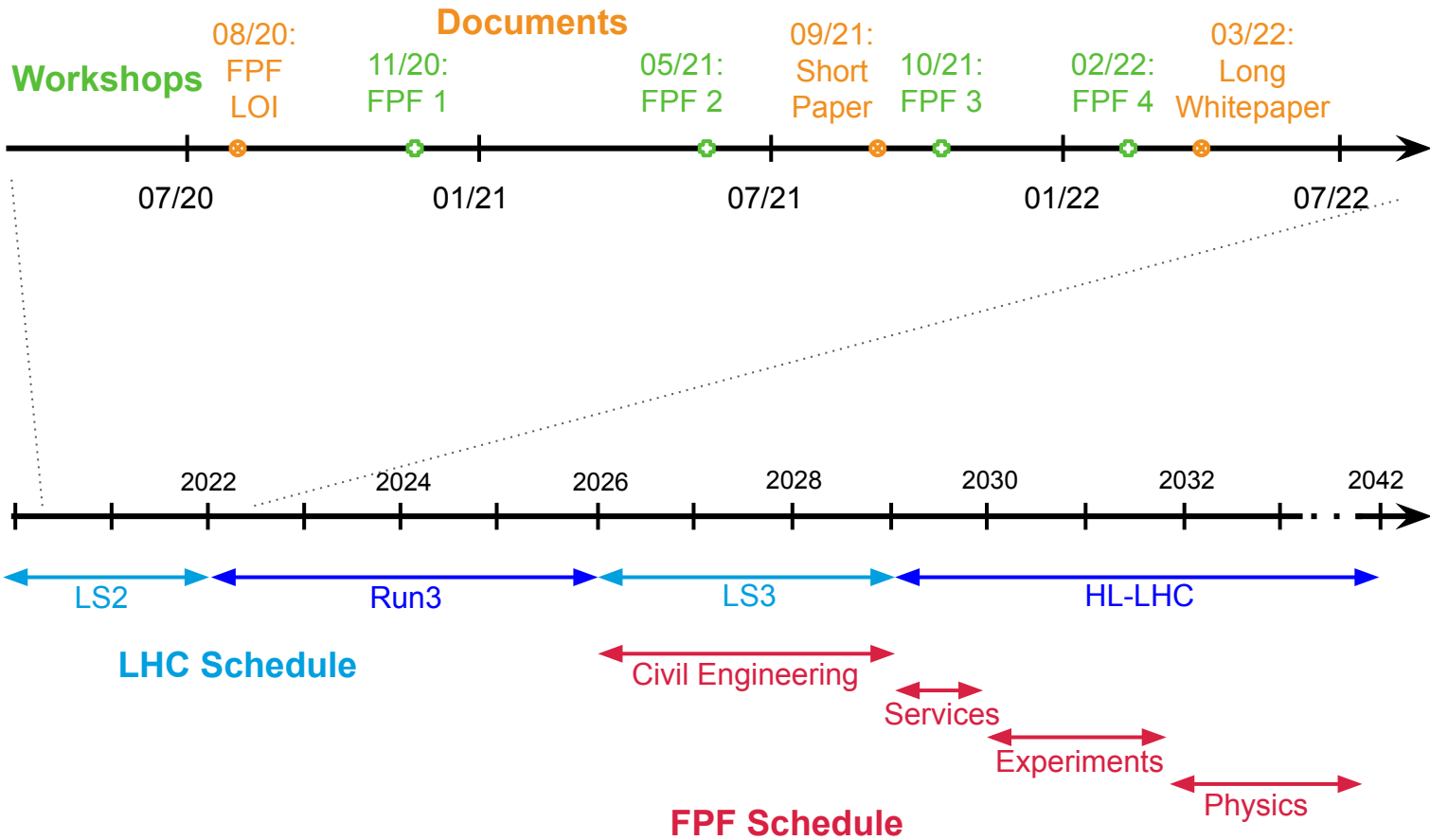
Working Group Conveners:

- **Facility and Experiments**: Jonathan Feng
- **BSM Physics**: Felix Kling; Ahmed Ismail, Sebastian Trojanowski, Yu-Dai Tsai
- **QCD**: Juan Rojo; Lucian Harland-Lang
- **Neutrino Physics**: Hallsie Reno; Kevin Kelly, Vishvas Pandey
- **Astroparticle Physics**: Dennis Soldin; Luis Anchordoqui

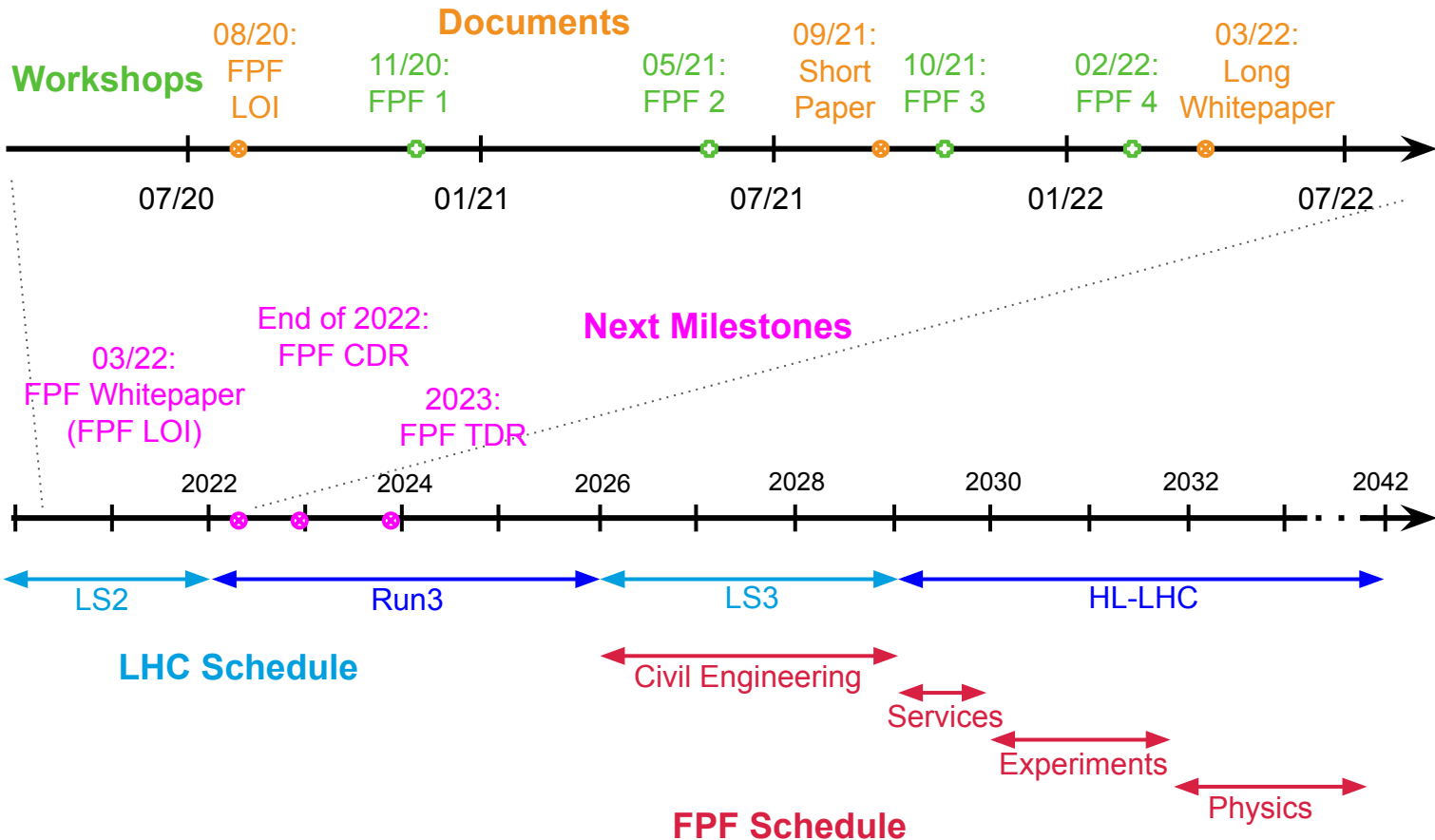
FPF & LHC Schedule



FPF Schedule



Next Milestones (for discussion)



**Please let us know your thoughts,
ideas and feedback.**

The FPF is a community effort, so your
opinion and contribution matters!