2nd Forward Physics Facility Meeting

Next Steps and Publication Plans

Felix Kling

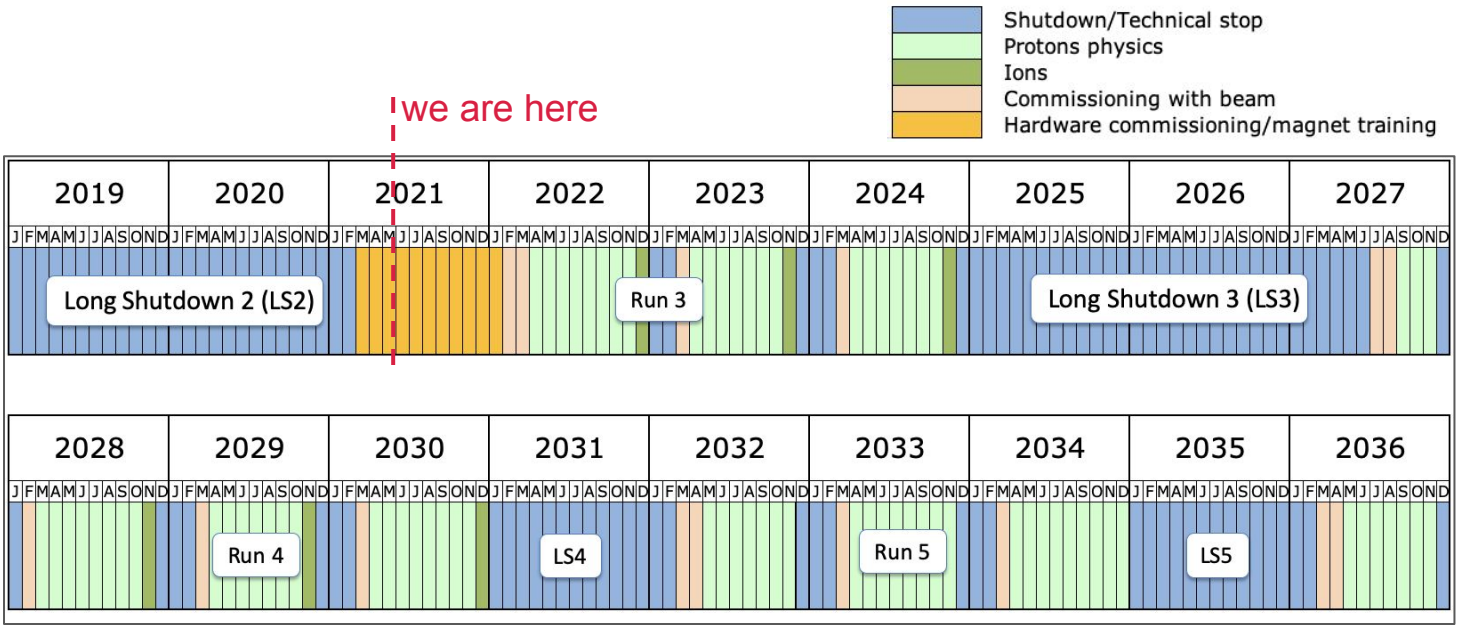
SLAC NATIONAL ACCELERATOR LABORATORY

FPF Timeline

FPF timeline depends on LHC schedule

FPF construction during LS3 (2025 - 2027)

FPF plans need to be incorporated into LS3 planning before that

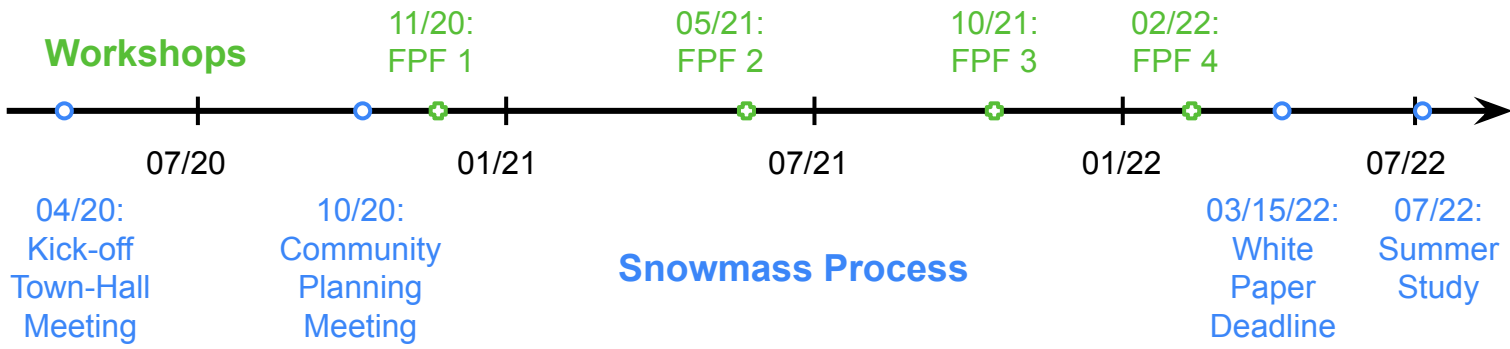


FPF Timeline

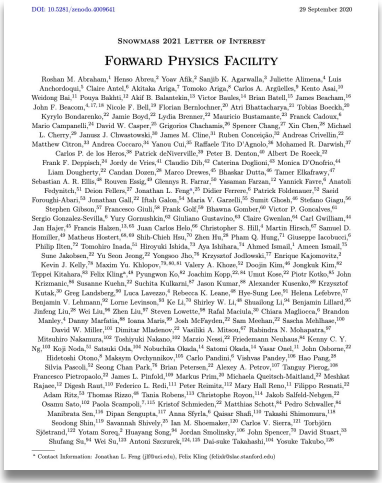
FPF study also part of the Snowmass community planning process.

Due to acceleration in the FPF planning activities,
we propose the following dates for the next workshops:
3rd FPF Meeting: Oct.25/26th 2021
4th FPF Meeting: Jan. 31st / Feb 1st 2022
FPF4 would focus on white paper discussion

Please let us know about any possible conflicts.



FPF Timeline



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SNOWMASS 2021 LETTER OF INTEREST

FORWARD PHYSICS FACILITY

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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 ~ 10-20 pages
- first real paper on FPF, to be submitted to arXiv and journal
- essentially a longer version of the LOI
- summary of ideas and reference for further studies

Long Whitepaper ~ 100-200 pages
- collection of detailed individual work on FPF related topics
- essentially a Proposal / Letter of Interest for FPF
- to be submitted to arXiv and journal

Documents

08/20: FPF LOI

07/21: Short Paper

03/22: Long Whitepaper

Workshops

11/20: FPF 1

05/21: FPF 2

10/21: FPF 3

02/22: FPF 4

07/20 01/21 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 Short Paper

Proposed Content

everyone interested in FPF physics and all FPF workshop participants are invited to be author and to contribute

outline concept / location of the FPF

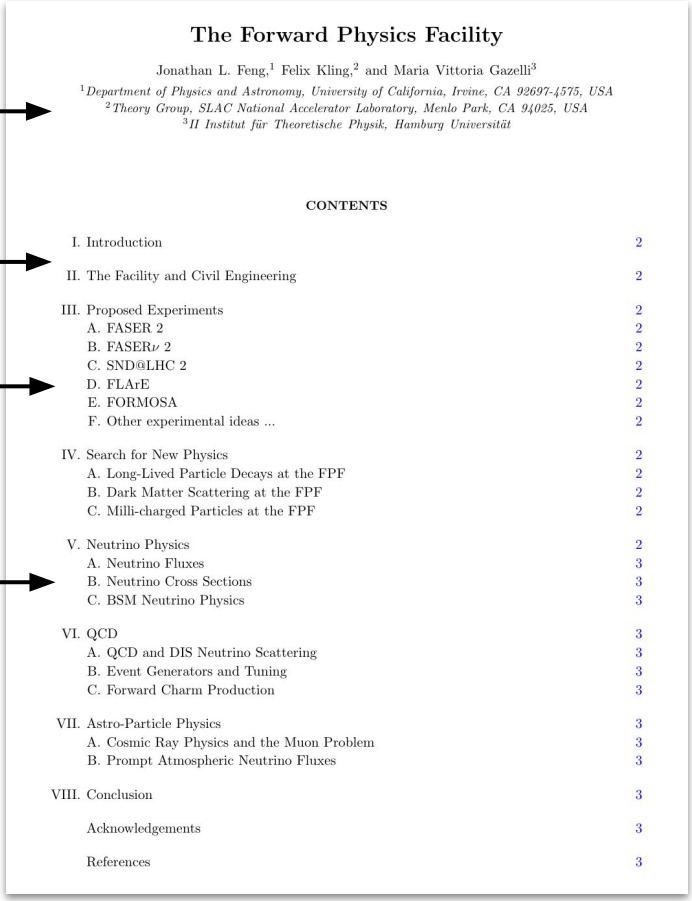
proposed experiments and benchmarks for further studies

short outline of the physics potential for

BSM physics (EF08-EF10)
Neutrino Physics (NF)
QCD and SM Physics (EF05-EF07)
Astroparticle Physics (CF7)

this is just a first proposal - please let us know about your ideas

for more details, visit the draft on overleaf



The Forward Physics Facility

Jonathan L. Feng,[1] Felix Kling,[2] and Maria Vittoria Gazelli[3]
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[3]*II Institut für Theoretische Physik, Hamburg Universität*

CONTENTS

FPF Short Paper

Proposed Strategy

draft is available on overleaf

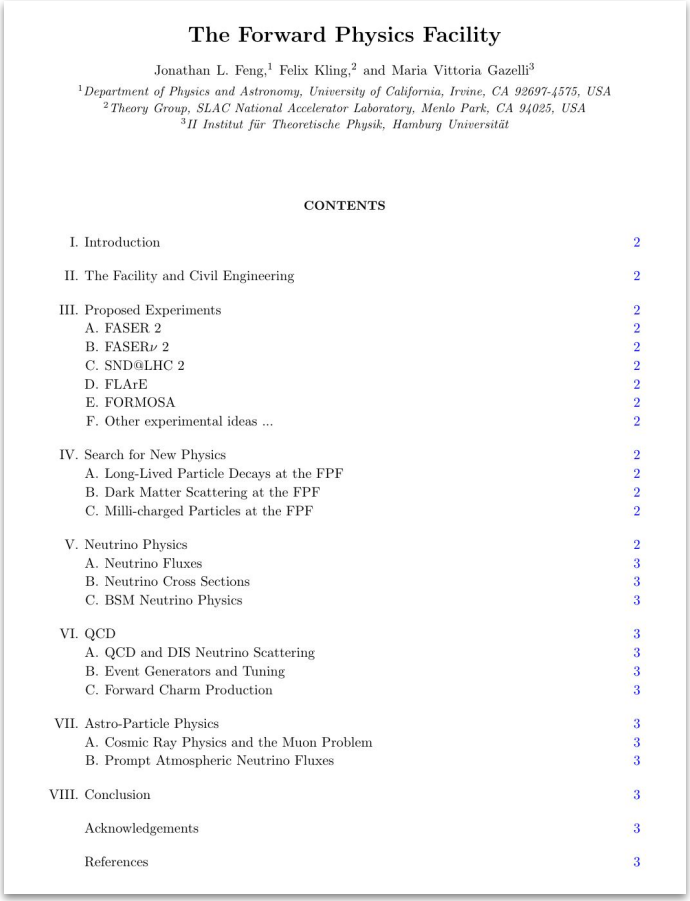
all participants are invited to contribute to the writing of the draft

it would be good to have editors for different sections - if you would like to volunteer or nominate a colleague within the FPF meetings participants, please send us an email

we would like to include contributions from all your FPF related work

Proposed Timeline

05/27-07/01: community contributions
07/01-07/14: editing by editors
07/14-07/21: draft send to community for feedback
end of July: draft to be submitted



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CONTENTS

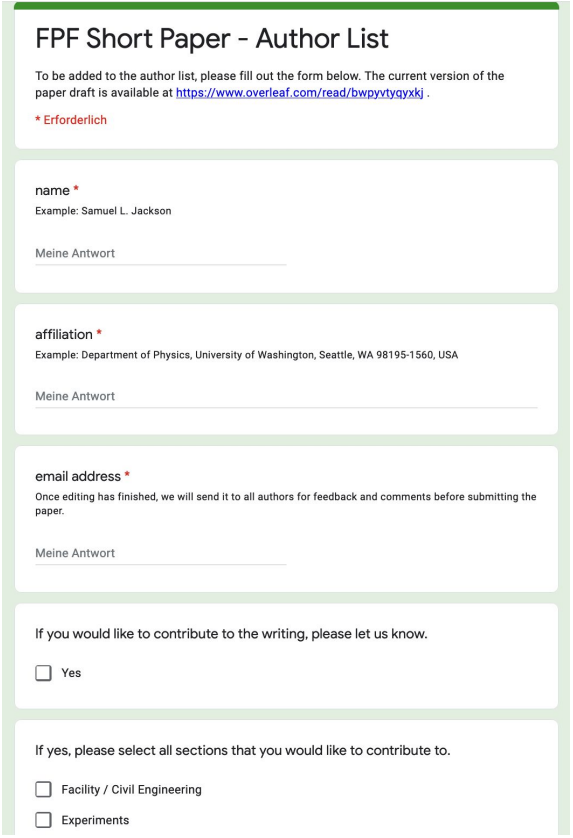
FPF Short Paper

We created a google form google form to sign up as author and to express interest to contribute to writing or editing:

https://docs.google.com/forms/d/e/1FAIpQLSdBDNn5UlZjN9xv3a7ZnW5uKIJ8Q0W3sk-M7NkE3-Kbwz1QFA/viewform?usp=sf_link

Please let us know your thoughts and your willingness to contribute!

We will also continue this discussion tomorrow



FPF Short Paper - Author List

To be added to the author list, please fill out the form below. The current version of the paper draft is available at https://www.overleaf.com/read/bwpyvtyqyxkj .

* Erforderlich

name *

Example: Samuel L. Jackson

Meine Antwort

affiliation *

Example: Department of Physics, University of Washington, Seattle, WA 98195-1560, USA

Meine Antwort

email address *

Once editing has finished, we will send it to all authors for feedback and comments before submitting the paper.

Meine Antwort

If you would like to contribute to the writing, please let us know.

☐ Yes

If yes, please select all sections that you would like to contribute to.

☐ Facility / Civil Engineering

☐ Experiments

FPF Long Whitepaper

Proposed Content / Strategy:

summary report on all FPF related work for Snowmass process

all participants are encouraged to submit a few page contribution on their work

similar to the short paper, it would be good to have editors for different sections

this document can also act as proposal / LOI for the FPF

Proposed Timeline:

08/21: create overleaf document after short paper submission
10/26/21: 3rd FPF workshop
02/01/22: 4th FPF workshop
02/07/22: submission deadline for contributions
02/21/22: draft send to community for feedback
03/05/22: draft submitted to arXiv / snowmass
03/15/22: snowmass whitepaper deadline

Please let us know your thoughts and your willingness to contribute

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

We have set up a google form to sign up as author and to express interest to contribute to writing or editing

We will also continue this discussion tomorrow

If you have any comments that you would like to include us in tomorrow's discussion slides, please send them to us via email: jlf@uci.edu, felixk@slac.stanford.edu, Maria.Garzelli@mi.infn.it