
# CONVENERS MEETING

**Agenda**

Introduction and Goals (Jonathan)
Budget and Document Preparation (Milind)
Quick WG Updates (WG Conveners)

2 February 2023

# UPCOMING DEADLINES

- In the US, Snowmass ended, P5 is beginning. P5 meeting schedule:
  - Cosmic Frontier, LBNL, Feb 22, 23
  - Neutrino, Rare Processes, High-Energy Astrophysics, FNAL, Week of Mar 20
  - Energy, Instrumentation, Computational Frontiers, Brookhaven, Apr 12-14
  - Underground, Accelerator, Theory Frontiers, SLAC, May 3-5
  - Also many town halls, closed sessions, etc. (https://www.usparticlephysics.org/p5)

- We will be asked to present FPF to P5 at the Energy Frontier meeting, Apr 12-14.
  - Energy Frontier is good: strong momentum from Snowmass ("Our highest immediate priority accelerator and project is the HL-LHC, …including the construction of auxiliary experiments…")
  - We are asked to present as one mid-scale project. This is also good: small-scale projects (< $50M) are typically not mentioned by name in the report and are lumped into a "small-scale bucket," which the DOE and NSF can interpret any way they want.
  - The talk should cover the science case, technical readiness, schedule and budget profile (year by year, not just total budget), and international participation.
  - Required: a document summarizing the schedule and funding profile.
  - Recommended: a ~20 page document, covering same topics as in the talk.

# UPCOMING DEADLINES

- In July 2022 meeting, CERN management requested that we come back in ~8 months (so around March - April 2023)
  - Should show progress: new results, new groups joining, progress in CE (core at FPF site), refined plans and budgets for experiments, progress in organizational infrastructure.
  - ECN3 discussion is underway, considering SHiP@ECN3 and HIKE (NA62 upgrade)/SHADOWS. Important for FPF to show complementarity to whatever is chosen for ECN3.

- Before the CERN management meeting, should formally present FPF to the DOE and NSF (so around March - April 2023). Rationale:
  - FPF was highly recommended by the community at Snowmass.
  - As a courtesy before presenting to CERN, should present to DOE.
  - NSF is supporting FASER operations (~$1.5M).
  - BNL is now making a significant investment in FPF, FLArE (~$1M, see Milind's talk)

- Given the near coincidence of deadlines, we should try to prepare 1 document to satisfy all needs. FPF white paper will be a very useful starting point, but good to show momentum and progress since then.

# ORGANIZATIONAL INFRASTRUCTURE

- New working group structure established before FPF5 to organize the work and provide contact names for new people interested in the FPF.
- Each Physics WG established goals for FPF5, February 2023, and the CDRs, with detector WG liaisons providing detector performance input.

**Steering Committee:** Jamie Boyd, Jonathan Feng, Felix Kling

**WG0 Facility**: Jamie Boyd

Physics WGs

**WG1 Neutrino Interactions:** Juan Rojo

**WG2 Charm Production:** Hallsie Reno

**WG3 Light Hadron Prod:** Luis Anchordoqui, Dennis Soldin

**WG4 BSM:** Brian Batell, Sebastian Trojanowski

Detector WGs

**WG5 FASER2:** Josh McFayden

**WG6 FASERnu2:** Aki Ariga, Tomoko Ariga

**WG7 FLArE:** Jianming Bian, Milind Diwan

**WG8 AdvSND:** Giovanni De Lellis

**WG9 FORMOSA:** Matthew Citron, Chris Hill

| WG Liaisons | WG5 FASER2 | WG6 FASERnu2 | WG7 FLArE | WG8 AdvSND | WG9 FORMOSA |
|---|---|---|---|---|---|
| **WG1** | Josh McFayden | Aki Ariga, Tomoko Ariga | Steve Linden, Wenjie Wu | Antonia Di Crescenzo | Matthew Citron |
| **WG2** | Josh McFayden | Aki Ariga, Tomoko Ariga | Steve Linden, Wenjie Wu | Antonia Di Crescenzo | Matthew Citron |
| **WG3** | Josh McFayden | Aki Ariga, Tomoko Ariga | Steve Linden, Wenjie Wu | Antonia Di Crescenzo | Matthew Citron |
| **WG4** | Josh McFayden | Aki Ariga, Tomoko Ariga | Steve Linden, Wenjie Wu | Cristovao Vilela | Matthew Citron |

# 20-PAGE DOCUMENT FOR P5 (& DOE, NSF, CERN)

- Proposed outline
  - Science case (4 pages): old and new results from WGs 1, 2, 3, 4
  - Technical readiness (10 pages): CE status from WG 0 (possibly including core results), updates on detectors from WGs 5, 6, 7, 8, 9
  - Schedule and budget profile (3 pages): See Milind's talk
  - International participation (2 pages): hopefully some tentative understanding emerges from meetings with DOE, NSF, CERN that if FPF goes forward, CERN pays host lab cost (~$40-50M for cavern), US and others fund the experiments

- Proposed timeline for preparing document
  - February 24 (3 weeks from now): Physics results fixed (~1 plot each for WGs 1, 2, 3, 4), "raw" text for expts, budget numbers entered into spreadsheet from WGs 5, 6, 7, 8, 9
  - March 3: 1st draft completed by professional preparer (BNL) and editor group (~5 people)
  - March 10: comments due
  - March 17: final draft completed
  - March 22: document sent to P5 (with 1 week contingency, gives P5 ~2 weeks to read it)
  - End of March: present document to DOE, NSF
  - Early April: present document to CERN management
  - April 12-14: present document to P5
  - [FPF6 planned for late April or May 2023]