

# DPF Core Principles and Community Guidelines (CP&CG)

- By participating in this meeting, you agree to adhere to the CP&CG
  - **Respect and support community members**
  - **Commit to constructive dialogue and take initiative**
  - Details of what this means, expectations for behavior, and accountability procedures are provided in the CP&CG document linked at:  
<https://snowmass21.org/cpcg/start>
- Everyone is invited to invoke the CP&CG as needed to encourage constructive and supportive collaboration
- The conveners of this meeting are your recommended first point of contact for reports of CP&CG violations occurring here
  - The conveners have received training in the CP&CG and how to handle reports
  - The CP&CG accountability procedure is designed to encourage early intervention and is flexible enough to appropriately address issues ranging from the discourteous to the egregious
  - Please do not hesitate to contact us!
- Snowmass is most successful when everyone's voice can be heard!

# CPM Local Organizing Committee



Bo Javatilaka  
Fermilab



Brendan Kiburg  
Fermilab

(Co-chairs of CPM Organizing Committee)



Jonathan Asaadi  
UT, Arlington



Saptaparna  
Bhattacharya, NW



Zoltan Gece  
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Erica Snider  
Fermilab



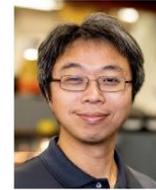
Tiziana Spina  
Fermilab



Yuanyuan Zhang  
Fermilab



Gordon Watts  
UW Seattle



Shih-Chieh Hsu  
UW Seattle

(Co-chairs of 2021 CSS)

Please don't forget to thank the Local Organizing Committee. They have not slept well in a loooong time!

# Computational Frontier - Planning

Steve Gottlieb (Indiana University),  
Oli Gutschke (Fermilab),  
Benjamin Nachman (Berkeley Lab)  
for the Computational Frontier

CPM October 2020

# This session

- 30 min session
- Break for 30 min
- 60 min session

- Start with planning discussion
- Take the break, it is (was) a long day!
- Conclude the planning discussion
- If time allows, discuss findings from the breakout sessions following our notes  
google doc: [https://docs.google.com/document/d/1Xa\\_mYki7SSbLzJc5l8eO9oprrgV6CVSgigFARm1ewNM/edit?usp=sharing](https://docs.google.com/document/d/1Xa_mYki7SSbLzJc5l8eO9oprrgV6CVSgigFARm1ewNM/edit?usp=sharing)

<b>210. CompF Planning</b>
Zoom 10 14:00 - 14:30
<b>Zoom 10 Break and Chat</b>
Zoom 10 14:30 - 15:00
<b>210. CompF Planning</b>
<i>Benjamin Nachman, Oliver...</i>
Zoom 10 15:00 - 16:00

# Goal of the planning session

- Plan timeline of different steps to write Snowmass 21 reports for the Computational Frontier
  - What are the parts of the Snowmass 21 reports that the Computational Frontier has to deliver?
  - What are the steps to deliver these parts?
  - Do we have all the necessary input from the community? Do we have to organize discussions/workshops?
  - Discuss currently proposed plan and solicit community input

This is a discussion, the frontier conveners act as moderators. Please raise your hands and wait to be called upon before unmuting. We will try to facilitate a lively discussion while we go through the planning materials on the next slides.

# Snowmass 21 report

Preliminary Report Structure: Adopting Snowmass 2013

## Executive Summary (~50 pages)

Introduction + a few pages from each frontier

## Frontier Report

- Frontier Summary (~20-50 pages)
- Topical Group Reports (~20-50 pages per TG)

Contributed Papers as Reference (LOIs will be available publicly but will not be references in the TG reports)



Computing Frontier

Chapter 9: Computing Frontier

Conveners: L. A. T. Bauerdick and S. Gottlieb

[Working Group Summary \(arXiv:1401.6117\)](#)

Subgroup Reports:

40.	<a href="#">Computing for the Cosmic Frontier</a>	<a href="#">1311.2841</a>
41.	<a href="#">Computing for the Energy Frontier</a>	<a href="#">1401.1840</a>
42.	<a href="#">Computing for the Intensity Frontier</a>	<a href="#">1310.6964</a>
43.	<a href="#">Computing for Accelerator Science</a>	<a href="#">1310.2203</a>
44.	<a href="#">Lattice Field Theory</a>	<a href="#">1310.6087</a>
45.	<a href="#">Computing for Perturbative QCD</a>	<a href="#">1309.3598</a>
46.	<a href="#">Distributed Computing and Facilities Infrastructure</a>	<a href="#">1311.2208</a>
47.	<a href="#">Networking</a>	<a href="#">1311.2478</a>
48.	<a href="#">Software Development, Personnel, and Training</a>	<a href="#">1311.2567</a>
49.	<a href="#">Storage and Data Management</a>	<a href="#">1311.4580</a>

Contributed Papers:

*Accelerator Science:*

160 J.-L. Vay, *et al.* White Paper on DOE-HEP Accelerator Modeling Science Activities [1309.3541 \(PDF\)](#)

*Distributed Computing:*

168 A. Avetisyan, *et al.* Snowmass Energy Frontier Simulations using the Open Science Grid [1308.0843 \(PDF\)](#)

*Software:*

083 P. Canal, *et al.* A Vision on the Status and Evolution of HEP Physics Software Tools [1307.7452 \(PDF\)](#)

090 S. V. Chekanov, *et al.* Next generation input-output data format for HEP using Google's protocol buffers [1306.6675 \(PDF\)](#)

105 P. Elmer, *et al.* The Need for an R&D and Upgrade Program for CMS Software and Computing [1308.1247 \(PDF\)](#)

111 M. Asai, *et al.* Geant4 - Current and Future [1308.1994 \(PDF\)](#)

*Intensity Frontier:*

104 D. M. Asner, *et al.* Belle II Experiment Network and Computing [1308.0672 \(PDF\)](#)

*Lattice Gauge Theory:*

144 T. Appelquist, *et al.* Lattice Gauge Theories at the Energy Frontier [1309.1206 \(PDF\)](#)

# White Papers

- Role of white papers:
  - Document that we captured the input from the community
  - Provide more detailed information than what is written in the reports
  - They are valuable references for our reports

White papers are important for our Snowmass 21 process and we need to make sure that we solicit and receive the appropriate white papers from the community.

Meetings & Workshops (10 Frontiers & 80 Topical Groups) + Contributed Papers

Nov. 2020	Dec. 2020	Jan. 2021	Feb. 2021	Mar. 2021	Apr. 2021	May 2021	Jun. 2021	Jul. 2021	Aug. 2021	Sep. 2021	Oct. 2021
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Community Meeting  
(APS April Meeting)

Community Summer Study (CSS)  
July 11-20, 2021 + DPF 2021  
(UW Seattle)

Snowmass  
Report

TGs: effort on consolidation, coordination  
& solicitation, leading to studies &  
Contributed Papers

TGs develop their key questions and opportunities

TGs produce outlines of their reports

(TGs: communication with authors of Contributed Papers)

Frontiers/TGs produce Preliminary Frontier Reports  
Community feedback on Preliminary Frontier Reports

CSS

Build consensus on key questions / opportunities of particle physics,  
enabling technologies, and community engagement;  
Formulate the content of the Snowmass Executive Summary

Frontiers/TGs produce Final Frontier Reports  
Steering Group produces Preliminary Executive Summary  
Community feedback on Prelim. Exec. Summary  
Snowmass Draft Report and Peer Review  
Snowmass Final Report

- Nov. 2020 - Dec. 2020
  - TGs: effort on consolidation, coordination & solicitation, to studies & Contributed Papers
- Dec. 2020 - Mar. 2021
  - TGs develop their key questions and opportunities
- Feb. 2021 - May 2021
  - TGs produce outlines of their reports communication with authors of Contributed Papers)
- Apr. 2021 - Jul. 2021
  - Frontiers/TGs produce Preliminary Frontier Reports
  - Community feedback on Preliminary Frontier Reports
- **Deadline for White Papers: Jul. 2021**
- **Community Summer Study (CSS) Jul. 11-20, 2021(UW Seattle)**
  - Build consensus on key questions / opportunities of particle physics, enabling technologies, and community engagement;
  - Formulate the content of the Snowmass Executive Summary
- Jul. 2021 - Oct. 2021
  - Frontiers/TGs produce Final Frontier Reports
  - Steering Group produces Preliminary Executive Summary
  - Community feedback on Prelim. Exec. Summary
  - Snowmass Draft Report and Peer Review
  - Snowmass Final Report

