SnowMass2021

APS DIVISION OF PARTICLES & FIELDS

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!

SnowMass2021

COMMUNITY ENGAGEMENT FRONTIER

Frontier Conveners

Table of Contents

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Description

The Community Engagement Frontier consists of several topical groups, namely applications, career pipeline and development, diversity and inclusion, physics education, public education and outreach, and public policy and government engagement. The objective is to improve and sustain strategic engagements with our communities in order to draw support for and strengthen the field of particle physics, while playing key roles in serving those communities. These engagements take well-coordinated efforts in many areas where the communities of experts and non-experts can understand and communicate our field's value, maximize its impact on global socioeconomic development, and open its doors to broader participation. The efforts aim to support and encourage practical applications of research in particle physics and technology transfers to industries, career development and job opportunities for graduates and young physicists, encouragement and inclusion of diverse physicists reflecting the diversity in our communities, improvement in physics education to produce talented and qualified students, outreach to motivate pupils and students, and to communicate the essence and impact of physics research, and finally engagement with governments and policymakers in matters of education and research for continued funding supports.

Topical groups

- CommF1: Applications & Industry
- CommF2: Career Pipeline & Development
- CommF3: Diversity & Inclusion
- CommF4: Physics Education
- CommF5: Public Education & Outreach
- CommF6: Public Policy and Government Engagement

LOIs in CEF

- **73 LOIs — Sort, organize and condense 73 LOIs into White Paper Work Groups (WPWG)**
  - To be re-organized, re-grouped and condensed into a smaller set of White Papers
  - Encouraged authors of related / merged LOIs to work towards common White Papers
  - Active solicitations of regular reports on the progress on White Papers in each the relevant Topical groups
  - Interim reviews of White Papers

Submitted LOI

Letters of Intent submitted to the Community Engagement Frontier (as primary frontier) shown in this link. Here is the list of submitted LOIs that include CommF as primary or secondary topic. First index before "/" corresponds to the primary frontier used for the submission.

click here to view LoIs submitted to this frontier

99 LoIs submitted to CommF

Nr	LOI PDF file	Date
1	AF/SNOWMASS21-AF0_AF0-CommF2_CommF0_Stancari-113.pdf	29/08/2020
2	AF/SNOWMASS21-AF1_AF0-CommF4_CommF2_John_Jowett-027.pdf	18/08/2020
3	AF/SNOWMASS21-AF1_AF6-CommF0_CommF0_Thomas-248.pdf	01/09/2020
4	AF/SNOWMASS21-AF7_AF6-CommF1_CommF0_Nanni-127.pdf	30/08/2020
5	CommF/SNOWMASS21-CommF0_CommF0-067.pdf	01/09/2020
6	CommF/SNOWMASS21-CommF0_CommF0-068.pdf	01/09/2020
7	CommF/SNOWMASS21-CommF0_CommF0-069.pdf	01/09/2020
8	CommF/SNOWMASS21-CommF0_CommF0-CF0_CF0-041.pdf	31/08/2020
9	CommF/SNOWMASS21-CommF0_CommF4-CompF0_CompF7_DanielSKatz-038.pdf	31/08/2020
10	CommF/SNOWMASS21-CommF1_CommF0-059.pdf	01/09/2020
11	CommF/SNOWMASS21-CommF1_CommF0-AF0_AF0_Fujio_Naito-046.pdf	31/08/2020
12	CommF/SNOWMASS21-CommF1_CommF0-AF0_AF1_Bruhwiler-066.pdf	01/09/2020
13	CommF/SNOWMASS21-CommF1_CommF0-AF0_AF7_Suarez-017.pdf	27/08/2020
14	CommF/SNOWMASS21-CommF1_CommF0-AF6_AF7-IF2_IF9-CompF3_CompF5-047.pdf	31/08/2020
15	CommF/SNOWMASS21-CommF1_CommF0-AF7_AF0-020.pdf	30/08/2020
16	CommF/SNOWMASS21-CommF1_CommF0_Alan_Todd-019.pdf	29/08/2020
17	CommF/SNOWMASS21-CommF1_CommF0_Field_Viewers_Inc-072.pdf	03/09/2020 late
18	CommF/SNOWMASS21-CommF1_CommF0_Field_Viewers_inc-071.pdf	03/09/2020 late
19	CommF/SNOWMASS21-CommF1_CommF0_Kazuhiko_Mase-024.pdf	31/08/2020
20	CommF/SNOWMASS21-CommF1_CommF0_Masanori_Matsuoka-033.pdf	31/08/2020
21	CommF/SNOWMASS21-CommF1_CommF2-032.pdf	31/08/2020
22	CommF/SNOWMASS21-CommF1_CommF2_LMatias-034.pdf	31/08/2020

Applications & Industry

- **Several LOIs to be organized in these topics**
  - Tech transfers from national lab perspective
  - Industry and vector developments for HEP labs
  - Joint workshop with Computation Frontier
  - FLASH radiotherapy
  - Launching spinoff companies from national labs
  - Engaging with big business
- **Not all the relevant topics covered in the LOI received**
  - Plan to widen the TG scope through outreach to other TGs, Frontiers and community at large

Career Pipeline & Development

- https://docs.google.com/spreadsheets/d/17P_HwRTM_5HH0NgV722GW2EipvS3CGZ37yBdGVzT8bc/edit?usp=sharing
- **Categories**
  - **Enhancing HEP research in 4-yr institutions and community colleges**
  - **Tackling Diversity and Inclusiveness in HEP**
  - **Retuning Physics Education and Early introduction of HEP in academic curriculum**
  - **Retention and reversing the brain drain in HEP**
  - **Facilitating transition to Industry Career**
  - **Enabling science and careers via the software, data and computing in HEP**
  - **Access to accelerators and instrumentation knowlegde for HEP and related careers**

Diversity & Inclusion

- **Within D&I as Primary**
  - Accessibility
  - Funding Agency Recommendations
  - Climate of the Field
  - Educational Resources for the Field
  - Lifestyle and Personal Wellness
  - Under-represented/Marginalized Communities
  - Recruitment, Evaluation, and Recognition
  - Societal Impacts of Science Projects → New Topical Group
- ***Led by other TGs***
  - Building the Pipeline
  - Societal Impacts
  - Education & outreach to under-represented communities
- Un-grouped, to be redirected
  - one

Physics Education

- **Five general grouping of LOIs**
  - Career and Education
  - General education K12 and up
  - Particle physics specific education
  - Global software issues and HEP
  - Public Education Connections
- **Ungrouped or to be re-directed**
  - Mostly related to international education & outreach

Public Education & Outreach

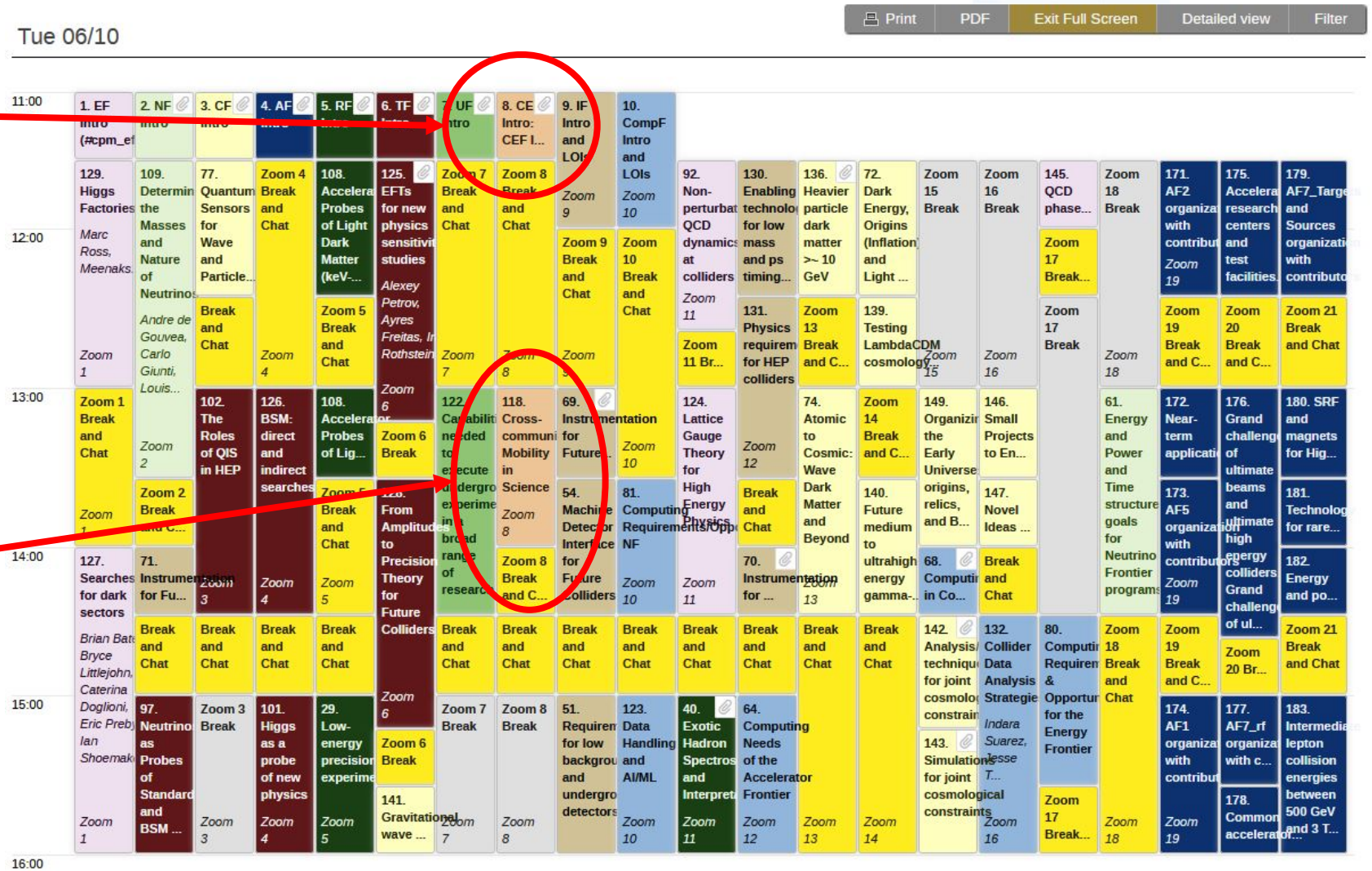
- **Early Career long-term organization**
  - Public Education and Engagement is on the radar in terms of important future work for early career physicists.
- **Education and Outreach to under-represented communities**
  - Multiple LoIs that are joint with D&I, focus on ethics and justice
- **Facilitating access to HEP data for educational purposes**
  - Particle physics playground (python!), network of detectors at schools (2), dedicated shared database with curriculum/activities/ideas
- **Expanding FNAL's international outreach reach through European Networks**
- **Expanding to non-traditional outlets**
  - Music and cultural festivals, integrated arts research

Public Policy & Government Engagement

- **Group organized around 4 broad topics**
  - HEP congressional advocacy (funding)
    - No LOI
  - HEP congressional advocacy (non-funding)
  - HEP non-congressional advocacy
  - Public policy and government engagement training and education
    - No LOIs
- **Other LOIs un-grouped, to be re-directed to other TGs**

CEF Breakout Sessions: Tuesday

- CEF Intro (this session)
  - 11:00-11:30
- #118: Cross-community Mobility in Science
  - 13:00-14:00



CEF Breakout Sessions: Wednesday

- Community Engagement Across the Frontiers
  - 11:00-12:15
- #119: HEP and Accelerator Workforce, Careers, and Training
  - 13:00-14:30
- #57: Connection with Industry
  - 14:00-15:00
- CEF Planning
  - 15:00-16:00