



CPM Planning Interim Report

Marina Artuso

A few general considerations

- ❑ What are we trying to get from this?
- ❑ A few facts:
 - ❑ Most frontiers (including us) had a chance to have inspiring kick-off meetings in advance of this meeting
 - ❑ We will have a first snapshot of the community investment in different frontiers through the LOIs

Workshop program draft I

CPM 2020 (Preliminary, 2020-08-18)				
Monday, October 5 (12:00 - 17:00 EDT)	Plenary Sessions	Introduction (15')	15'	About Snowmass, About CPM
		Inspiring talk about the field (30')	30'	Exciting Physics Before Us
		Particle Physics Plans in Other Regions (80')	25'	Europe/Russia
			25'	Asia/Pacific
			25'	Break
			10'	Canada
			10'	Latin America
			10'	Africa/Middle East
		Plans in Related Fields (30')	15'	Astro2020 Decadal Survey
			15'	Long Range Plan for Nuclear Science
Remarks from Funding Agencies to the community / Snowmass process (20')	10'	DOE		
	10'	NSF		
	25'	Break		
Community Voices (75')	75'	Town Hall		
Tuesday, October 6 (10:00 - 11:00 EDT)	"Special" Plenary Seession	Global Accelerator Facilities: Energy Frontier Colliders and Multi MW Neutrino Beams (60')	60'	Panel Discussion with CERN, KEK, IHEP, FNAL and BNL Directors
Tuesday, October 6 (12:00 - 17:00 EDT)	Breakout Sessions (organized)	Focus on inter-frontier discussions and establish cross working group connections. Identify new areas to focus Identify gaps and further input needed to achieve Snowmass goals		
	Chat Rooms (unorganized)	Brainstorm new ideas		
Wednesday, October 7 (12:00 - 17:00 EDT)	Plenary Session	Community Engagement: Panel Discussion with CEF-Other Frontier Liaisons (75')		
	Breakout Sessions (organized)	Focus on inter-frontier discussions and establish cross working group connections. Identify new areas to focus Identify gaps and further input needed to achieve Snowmass goals		
		Brainstorm new ideas		
	Chat Rooms (unorganized)	Brainstorm new ideas		

First block for parallel sessions

2nd block for parallel sessions

Workshop program draft II

Thursday, October 8 (12:00 - 17:00 EDT)	Plenary Sessions	Early Careers (20')	20'	Early Careers
		Frontiers: Ongoing Activities, Summaries of Breakout Sessions, and Next Steps (200')	20'	Energy
			20'	Neutrino
			20'	Rare Processes & Precision Measurements
			30'	Break
			20'	Cosmic Frontier
			20'	Theory
			20'	Accelerator
			20'	Computing
			30'	Break
			20'	Instrumentation
			20'	Underground Facilities and Infrastructure
			20'	Community Engagement
		Closing remarks (10')	10'	Closing

The challenge

Make the best use of the two parallel session slots

Proposal to start with a frontier-specific session when we can discuss issues specific to our community

In the following focus on seeing on how our topics are making it into the agenda

Our proposals for breakout sessions

CompF	New analysis techniques for high data volumes	with CompF, EF
IF	Picosecond timing for high precision studies of rare decays	with IF,EF
IF	New materials for massless detectors	with IF,EF
TF, EF	quantifying sensitivity to new physics (EFT, new physics)	with TF02,TF06,TF08,CompF,EF
TF	Lattice QCD as a tool for interpretation of RF data	with TF,CompF,EF
TF	Exotic hadron spectroscopy and interpretation	RF7 with EF6, ef7, TF, CompF
TF	anomalies in flavor physics	rf1,rf2,compf, TF
TF	heavy state CLFV decays	rf4 rf5 with EF,NF,TF
TF, AF	searches for different dark particles	rf6 with af,ef,nf,cf, TF
AF	new accelerator concepts for muon transitions	rf3, rf5 with af
TF	mechanisms to generate neutrino masses	rf4 with nf, TF08, TF11

Ef and tf agree

Tf, ef agree

IF ok's these