

FCC Snowmass whitepaper author check-in

Sarah Eno

Snowmass reminder

Snowmass process gathers information via white papers and then produces a report which goes to the P5 committee. The P5 committee sets the long-range priorities for US fundamental physics funding. The US congress very much likes this process and once the priorities are set, it is virtually impossible to fund anything not on them or to change ordering of the priorities. Sets US funding for many years. Sets what we are allowed to work on. Note that although LHC is well supported, in general work abroad is not favored.

- Snowmass began in early 2020
- Was paused in January 2021 due to COVID
- Resumed Sept 2021
- White papers due March 2021
- Energy frontier meeting at Brown 28 March - ! April <https://indico.fnal.gov/event/52465/>
- Workshop in Seattle Washington 17-27 July. <https://indico.fnal.gov/event/22303/> Much of report produced there.
- (it would be useful for as many people to go to Brown and Seattle as possible

We plan a paper of about 50 pages (about 5 pages per chapter). These will contain references to existing papers/arXiv submissions and brief summaries of the predicted impact.

The overleaf frame is at: <https://www.overleaf.com/read/yfhwhjmrcrmw>

Schedule:

- 17 Jan – first draft due from primary authors
- check up meeting 27 Jan 14:30
- 4 Feb – feedback from secondary authors
- 18 Feb – second draft
- 25 Feb – final draft
- Until 15 March – circulate to get signatures

whitepaper

Section	Primary authors	Secondary input	Current number of pages	appearance	Corresponding snowmass subgroups
Introduction	Eno, Denisov	Janot, Blondel	2.25	Done? (need higher quality figures)	
Accelerator	Raubenheimer	Zimmerman	4	Table causes compilation failure	
Higgs	Brost, Paus	Klute, Grojean, Bernardi, Janot, d'Enterria	3	Text a bit rough, but content seems to be there?	EF01, EF02
Precision EWK	Hildreth, Freitas, Zhu	Blondel, Gluza, Alcaraz, de Blas	5.5	Done? (tables shouldn't be screen grabs)	EF04
Top	Demina, Skinnari	Simon, Azzi, Vos	4.5	Figure seems a bit large?	EF03
BSM	Willocq, Thomson	Suarez, Heinemeyer, Antusch	2.5		EF08, EF09, EF10
QCD	Eno	D'Enterria	3	Done? (well, maybe need to remove lengthy quote from LEP QCD papers and replace with concise summary)	EF05, RF1, RF4, RF5
flavor	Novotny, Altmannshofer, Landsberg	Dam, Isidori, Pich, Hill	2	Still rough?	
FCC-hh	Harris, Barberis, Wang	Mangano, Selvaggi	3	Final?	all
Detectors	Seidel, Qian	Bedeschi, Giacomelli, Aleksa, Perez	6	Final?	
Summary	Eno, Denisov	Janot, Blondel	0		

Thank you so much for
helping make a future
accelerator a possibility!