

## **Neutrino Frontier Topical Conveners Meeting, August 7th, 8am CST**

Minute-taker: Pedro Ochoa

Disclaimer: conversations were highly paraphrased

Indico agenda: <https://indico.fnal.gov/event/44009/>

### **0) Intro (Kate Scholberg)**

- Nothing big happening in this meeting, mostly updates.

### **1) News, CPM Update (Kate Scholberg)**

- Thanks to this minute-taker and Bryce for SEC NF talk
- New NF google calendar
- Andre de Gouvea remains as NF-EF liaison
- NF keeps LOI on August 31, 2020. LOIs after that deadline can be taken into account, but as a frontier want to stick to initial deadline.
- NF meeting will be March 15-17, 2021, hosted by ORNL but virtual most likely.

### **2) SEC-NF Update (Erin Conley)**

- Committee now holds bi-weekly meetings
- New slack channel: #early-career-neutrinos
- Gone through some changes to leadership and liaisons (see slides in indico for details)
- Have surveyed our constituents, 80% of surveyed involved in drafting LOI

Questions:

Kate: is mailing list properly cycled to right people as they rotate in different roles?

Erin: yes

Jae: 3-month terms sounds short

Erin: wanted opportunity for everybody to get involved

### **3) CPM Meeting (Patrick Huber)**

- Preliminary plan:
  - \*\*\* 4 days, 5 hours per day, virtual only
  - \*\*\* Preliminary schedule: (day 1) all plenary; (day 2) Breakout sessions; (day 3) one hour plenary, rest is breakout session; (day 4) all plenary.
- Discussions with leadership so far focused on how to use Breakout Sessions. That is where most value is generated in this meeting.
- Leadership would like those sessions defined soon but planning committee has pushed back on that.
- Send comments in slack. Need feedback to end up with the right meeting.

Questions/comments:

Kate: seems hard to come up with content before LOIs come in.

Patrick: agreed

Kate: talked about having a plan for what studies need to be done, what questions need to be answered.

Patrick: yes, should have about 3 hours of time for the NF to come up with “gap analysis”. Good amount of time if prepare for it.

Kate: we will need to have had processed the input we got from LOIs by that meeting

Patrick: right. When LOIs come in, how will we deal with them? For instance, have group of people committed to sorting them?

Nathaniel Bowden: should every working group be prepared to give a summary of what they received?

Patrick: yes, but depends on how many LOIs we get. Have to distill all information.

Kate: every LOI submitted should somehow be represented.

Josh Klein: what is the deliverable from this meeting?

Patrick: by that time will have LOIs and know what they are about, so should have a good landscape of what will be part of Snowmass and what we are lacking. Come up with plan on how to fill these gaps. In spring meeting should have a draft of what will go into final document, at least in term of bullet lists.

Josh Klein: so should come to meeting already with reasonably well-developed plan before hand.

Patrick: agreed.

Hiro Tanaka: you mentioned like 3 hours, so 2 hours is inter-frontier discussion and the rest for us?

Patrick: have 9 hours for Breakout sessions in total. Cross-cutting should take about 2/3 of the time and so it looks like of that we can have 2-3 hours for our own use.

Erin O’Sullivan: how will discussions be organized between frontiers and topical groups? *[highly paraphrased]*

Patrick: nobody yet knows exactly

Erin: from this meeting would be nice to get a list of who to talk to for each topic when it comes to assembling the document.

Patrick: yes, should at least get an idea for that out of this meeting.

Jaehoon Yu: are we done collecting information on google-doc?

Patrick: not yet, can still make edits. But encourage you to make final edits by this week-end.

#### **4) Individual group reports (all)**

\*\*\* NF01 (Hiro Tanaka, slides available in indico)

- Finalizing plans for workshop in terms of dates, hours, and invitations.

\*\*\* NF02 (Pedro Machado, no slides)

- Solicited many LOIs, gotten many replies.

\*\*\* NF03 (Jaehoon Yu, slides available in indico)

- Have preliminary plans for kick-off meeting (two 3-hour online-only days), including list of topics. Main goal is to prepare for CPM.
- Also have some plans for joint workshop with NF01, NF02, NF03, RF06 and TF11.

\*\*\* NF04 (Erin O'Sullivan, no slides)

- Got positive responses to invitations to submit LOI, expect them to come in before deadline.
- Thinking of moving our workshop to the fall rather than early 2021. Will decide soon.

\*\*\* NF05 (Carlo Giunti, no slides)

- Total of 6 mini-workshops focused on different topics before LOI deadline, have already done 4 of them. Worked very well and gotten good enthusiasm.
- No LOIs received yet but expecting several.

\*\*\* NF06 (Jason Newby, no slides)

- Decided to focus 2 workshop days in September to solicit input on what users need as service measurements and theoretical calculations.
- In process of sending out invitations.

\*\*\* NF07 (Nathaniel Bowden, no slides)

- Have been focusing on reaching out to LOIs, expect a good number close to deadline. Sent a mass e-mail yesterday.

\*\*\* NF08/TF11 (Andre de Gouvea, no slides)

- Were part of TF townhall last week. Decided to have a 3-day meeting in September with people from other frontiers on neutrino theory.

\*\*\* NF09 (Alysia Marino, no slides)

- Have solicited LOIs, expect good number before deadline.
- Have good overlap with AF02 topical group, expects submissions to be cross-listed.
- Continue to plan for workshop in December, will start advertising very soon (maybe later today).

\*\*\* NF10 (Josh Klein, no slides)

- Sent e-mail to contact people from various experiments, but also plan to target some specific people within this week.
- Received 2 LOIs tangentially relevant to group.

Kate: are things like reconstruction algorithms, analysis techniques (including machine learning) in your purview or computational frontier?

Alex Himmel: in CF there are two subgroups dedicated to this.

Josh: a little nervous of getting a very large number of machine learning LOIs

Alex: could re-direct them if get a torrent of them.

Josh: if you see some going to CF that are well-suited to NF10, please let us know.

Alex: will keep an eye out.

## **5) AOB (all)**

Erin O'Sullivan: did not understand scope of the NF03 meeting. For community to discuss topics or only conveners?

Jaehoon Yu: community, although conveners will be making sure areas are properly covered.

Erin: we (Natural Sources conveners) may have to be in the loop with you

Jaehoon: yes

Kate: NF03 has a lot of overlap

Kate: next topical conveners meeting is August 18, 5pm CST.

Jaehoon Yu: marching orders?

Kate: we will send those, but that meeting may be similar to this one. Mostly CPM discussion.

Patrick: fill out spreadsheet by early next week. If have anything specific on what should get in the CPM, let us know by next meeting at the latest.