NF Topical Conveners Meeting

Elizabeth Worcester, for Kate and Patrick

July 10, 2020

Today's Agenda

- Plans for NF Town Hall (this talk)
- Neutrino Properties Mini-Workshop #1 Report
- Topical Group Reports
    - LOIs received
    - LOIs to be solicited
    - Note: LOI template on NF page in Snowmass wiki (not required)
- NF Workshop Site Selection Committee Report
- AOB
- Upcoming dates:
    - NF05 Mini-Workshop #2 July 15
    - Town Hall July 17
    - NF05 Mini-Workshop #3 July 22
    - Next topical conveners meeting July 23

Neutrino Frontier Town Hall

- July 17, 9 am – 12 pm CT
- Zoom meeting
- Discussion organized around three primary questions
- Invitation distributed via email lists, Slack, to funding agencies
- Registration deadline has passed (some flexibility)
- 446 registrants
- ~16 questions
- 19 requests for "3 minute comment"
  - These should be relevant to discussion questions and not advertisements for particular projects

Deadline for registration: **July 8**

https://indico.fnal.gov/event/43581/

We are organizing the conversation around three main categories, and for each of these, the convener group has developed a few questions to spark discussion:

1. **Physics goals and motivation**
   - How are the limitations of existing neutrino sources and detectors affecting our physics reach?
   - What kinds of new physics searches should we prioritize, especially considering that there are no decisive hints regarding what lies beyond the standard model from other fundamental physics experiments?
   - What can neutrino physics do for other fields of science and technology?

2. **Theory and neutrinos**
   - What is the theory motivation to go beyond the current program?
   - How can theorists best support the experimental program?

3. **Sructure of the program**
   - How do we maintain the necessary breadth of physics, including smaller experiments, auxiliary measurements, and activities within larger projects?
   - How can we ensure that experimental and theoretical efforts have enough resources to pursue questions of significant interest, even if those questions cross the boundaries of Frontiers or funding umbrellas?

Structure of Meeting

- Short Presentations:
  - Introduction to Town Hall: NF Conveners
  - Computing Frontier Perspective: Alex Himmel
  - European Strategy Report: Joachim Kopp
- Panel Discussion Addressing Primary Questions
  - ~3 panelists for each topic (likely mostly drawn from topical conveners)
  - 1 early career panelist for each topic – please suggest early career colleagues!
  - Submitted questions and 3-minute presentations will all be assigned to one of the the three panels
  - Structure will be brief comment by each panelist, then answers from panelists to submitted questions, then 3-minute presentations with responses from panel as appropriate, then open mic discussion. Repeat for each of 3 topics.
- General discussion and open mic